Venkata Sai Sriram Valluri  A logo with a hexagon and blue and green colors

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AI-generated content may be incorrect.

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Sr. Java Full Stack Developer

**ABOUT ME:**

*Accomplished software developer with over* ***11 years*** *of expertise in* ***cross-platform application development****, specializing in* ***Core Java*** *and* ***J2EE*** *technologies. Proficient in* ***Spring MVC****,* ***Spring Boot****, and* ***Web Services*** *(SOAP/REST), with a robust understanding of the* ***Software Development Life Cycle (SDLC)****. Adept at delivering* ***scalable****,* ***high-performance solutions*** *within* ***Agile*** *environments. Proven expertise in* ***Java, Spring Boot, ReactJS****, and* ***AWS*** *(EC2, Lambda, S3, RDS, CloudFormation). Hands-on with* ***AI/ML tools****, including* ***OpenAI APIs****,* ***LangChain****, and* ***LLM integration****. Experienced in* ***DevOps (CI/CD, Terraform, Docker, Kubernetes)*** *and leading end-to-end architecture and delivery for enterprise applications.*

**Java 21 | Angular | React | Kafka | MySQL | Java Script | Node JS | Spring | AWS Cloud | AI/ML Integration**

**Professional Summary:**

* **Core Java** expertise, including advanced knowledge in **Multithreading**, **Collections**, and **Garbage Collection** to build high-performance applications.
* Extensive experience in developing and deploying **Microservices** using **Spring Boot** and **Netflix OSS** (Zuul, Eureka, Ribbon, Hystrix), with a focus on **Domain-Driven Design** and efficient system architecture.
* Deep technical proficiency in **Spring technologies**, including **Spring Boot**, **Spring Security**, **Spring Core**, **Spring MVC**, **Spring AOP**, **Spring ORM**, **Spring JPA**, and **Spring REST** for building secure and maintainable applications.
* Expertise in designing and implementing enterprise-level solutions with **Spring Framework**, **Hibernate**, and **Microservices**, integrating multiple large-scale data sources for **real-time analytics** and decision-making.
* Proficient in building **RESTful** and **SOAP Web Services** using **JAX-WS**, **JAX-RS**, and **Spring RestController**, ensuring secure, efficient, and scalable service integrations.
* Solid understanding of implementing design patterns such as **DAO**, **Factory**, **Singleton**, **Observer**, **Builder**, and **DTO** to optimize application performance and maintainability.
* Experienced in integrating **OAuth2.0** for secure authentication and managing API access in distributed systems.
* Comprehensive knowledge of front-end technologies, including **jQuery**, **JavaScript**, **CSS**, **HTML**, and hands-on experience with modern JavaScript frameworks such as **AngularJS**, **Angular 2**, and **ReactJS**.
* Advanced experience with relational databases (**SQL Server**, **Oracle**, **MySQL**, **PostgreSQL**) and **NoSQL** technologies (**MongoDB**, **Cassandra**, **DynamoDB**), ensuring seamless data management and performance optimization.
* Expertise in real-time **data streaming** solutions using **Kafka** and **Flink**, handling high-volume data with low latency for analytics and event-driven architectures.
* Strong experience in **containerization** and **orchestration** using **Docker** and **Kubernetes**, as well as building and managing **CI/CD pipelines** with **Jenkins**, **Maven**, and **SonarQube** for streamlined development and deployment.
* Hands-on experience with **message brokers** such as **ActiveMQ**, **RabbitMQ**, and **Kafka** to enable efficient and reliable communication across distributed systems.
* Solid understanding of **PL/SQL**, including creating **stored procedures**, **functions**, and **triggers**, to enhance database operations and performance.
* Proficient in **automation testing** using frameworks like **Rest Assured** and **Selenium WebDriver**, and experienced with **unit testing** using **JUnit**, **Mockito**, and **TestNG**.
* **AI/ML** experience leveraging **Google Cloud AI APIs** and frameworks like **TensorFlow** for implementing **predictive models** and automating complex decision-making processes.
* Proficient in **AWS** services (including **EC2**, **S3**, **RDS**, **Elastic Load Balancing**, **SQS**, **IAM**, **CloudWatch**, **EBS**, and **CloudFront**), and hands-on experience with **Google Cloud Platform (GCP)** and **Microsoft Azure** for deploying and managing cloud-based applications with a focus on scalability and security.
* Experienced with **AWS Glue** for **ETL** (Extract, Transform, Load) processes, integrating diverse data sources, automating data workflows, and ensuring seamless data pipelines for analytics and reporting.
* Continuously focused on **professional development**, staying current with the latest technologies, frameworks, and best practices to drive innovation in software development.
* Proven ability to work in **Agile teams**, collaborating with cross-functional teams in **sprint planning**, **stand-ups**, and **retrospectives** to ensure timely delivery of features and product improvements.

**Technical Skills**

|  |  |
| --- | --- |
| **Java/J2EE Technologies** | Servlets, JSP, JSTL, JDBC, JMS, JNDI, RMI, EJB, JFC/Swing, AWT, Applets, Multi-threading, Java Networking. |
| **Languages & Frameworks** | Java (8–21), Core Java, J2EE, Spring Boot, Spring MVC, Spring Security, JPA, Hibernate, RESTful APIs, PL/SQL, Python (AI/ML), C#, Node.js |
| **Application/Web Servers** | Oracle/BEA, Web Logic 8.1/9.1/10.3, IBM Web Sphere 5.1/6.0/6.1/7.0, JBoss, Tomcat 5.0.28/6.0, Bug tracking, Jenkins, Cucumber. |
| **IDEs** | Eclipse, Spring STS, IntelliJ, Web Storm, NetBeans. |
| **Web Technologies** | HTML5, CSS3, XHTML, JavaScript(+ES6), Typescript, Ajax, jQuery, AngularJS, Angular 2,4,5&6, ReactJS, NodeJS, Socket.io, Express JS, JSON, Swagger UI, Bootstrap, Google Web Toolkit (GWT), Backbone JS. |
| **Frontend Technologies** | ReactJS (Hooks, Redux, Context API), Next.js, Vue.js, Angular, JavaScript (ES6+), TypeScript, HTML5, CSS3, Bootstrap, Tailwind CSS, Material UI, |
| **API Technologies** | OpenAPI Specification, Swagger, RESTful APIs, GraphQL (familiar), API Gateways (Apigee, AWS API Gateway), OAuth 2.0, JWT, HTTPS, Secure API Design |
| **Web Services** | JAX-WS, JAX-RPC, JAX-RS, SOAP, REST, SOAP UI, Micro services. |
| **Methodologies** | Agile, Scrum, RUP, TDD, OOAD, SDLC, Waterfall model. |
| **Message Brokers** | Kafka, RabbitMQ, ActiveMQ, IBMMQ, Flink |
| **Cloud Platforms** | AWS (EKS, Lambda, Aurora PostgreSQL, DynamoDB, S3, IAM, Route 53, ELB, SNS, SQS, MSK, CloudWatch, Glue, CodePipeline, CloudFormation), GCP (Vertex AI, GKE), Azure (App Services, Cosmos DB, ADO) |
| **Testing technologies/tools** | JUnit, Mockito, Rest Assured, Selenium WebDriver, Cypress, JMeter, Protractor, Karma, Jasmine, Mocha, Enzyme, Automated Unit & Integration Testing, Performance Testing. |
| **DevOps & Tools** | Git, GitHub, GitLab, Bitbucket, Jenkins, Terraform, Docker, Kubernetes, Maven, Gradle, SonarQube, IntelliJ, VS Code, Postman, log4j, Splunk |
| **Database** | Oracle 8i/9i/10g/11G/12C/14C, DB2, SQL Server 2005/2008, MySQL, PostgreSQL, Sybase, MongoDB, Cassandra, DynamoDB, Redis, Snowflake, Aurora PostgreSQL |
| **AI/ML & NLP** | OpenAI (ChatGPT API), LangChain, Retrieval-Augmented Generation (RAG), Vector DBs (FAISS, Pinecone), Named Entity Recognition, Sentiment Analysis, Document Summarization, AWS Sagemaker, Google Vertex AI |
| **Big Data Tools** | Hadoop, Spark, MapReduce, HDFS, HBase, Zookeeper, Hive, Sqoop, Cassandra, Flume, Couch base, MongoDB, Neo4J, Redis, MLlib. |
| **Version Control** | CVS, SVN, Git, Stash, Bitbucket. |
| **Build Tools** | ANT, Maven, Gradle. |
| **Spring Tools** | Spring MVC, IOC, AOP, JDBC, JTA, IO, Spring Boot, Spring Micro services, Spring REST, Spring Eureka, Spring Hateos, Spring Cloud, Swagger UI, Sleuth, and Spring Zuul, Feign Client. |
| **Banking & Financial Systems** | Banking Domain Expertise, Core Banking Platforms (Temenos, Finacle, Oracle Flexcube), Payment Gateways (Stripe, PayPal), Payment Systems (ACH, SWIFT, ISO 8583), Fraud Detection Logic, Encryption Techniques, Customer Accounts & Loans, Risk Management Workflows |

**Professional Experience**

**Client: JP Morgan Chase,** **Tampa, FL Mar 2023 – Present Sr. Java Full Stack Developer**

**Responsibilities:**

* Designed dynamic user interfaces using **React.js 18**, leveraging **React-Redux** for state management and utilizing **JavaScript**, **HTML5**, and **CSS3** to create engaging and responsive frontend experiences.
* Implemented **Kafka Producer** and **Consumer** within a **microservices** architecture, architecting a real-time data streaming pipeline using **Kafka** and **Flink** for seamless data flow.
* Developed backend services utilizing advanced features of **Java 17**, **19**, and **21**, including **record patterns**, **pattern matching**, **sealed classes**, and **virtual threads**, ensuring efficient resource utilization.
* Designed and deployed **AWS Lambda** functions using **Node.js** and **JavaScript**, contributing to serverless architecture for scalable solutions.
* Implemented robust **REST API** integrations using **AWS API Gateway** and **Spring MVC**, ensuring seamless interaction between services.
* Managed OS and AMI upgrades, orchestrating resource provisioning via **AWS Systems Manager** and **CloudFormation** for optimal infrastructure management.
* Integrated a suite of AWS services, including **CloudWatch**, **WAF**, **Secrets Manager**, and **Parameter Store**, ensuring a secure and scalable cloud environment.
* Integrated **OpenAI APIs (ChatGPT)** with enterprise knowledge systems using **LangChain**, vector databases, and **retrieval-augmented generation (RAG)** architecture.
* Built **ML** pipelines using **AWS Sagemaker** and **Google Vertex AI** for real-time analytics and customer behavior prediction.
* Developed **AI chatbots** and document summarization engines leveraging **NLP** techniques like **Named Entity Recognition (NER)**, sentiment analysis, and text classification.
* Applied **ETL methodologies** in data integration using **Informatica PowerCenter** and **Informatica Intelligent Cloud Services (IICS)**, facilitating the transformation and movement of large datasets.
* Crafted complex SQL queries, employing advanced joins, subqueries, and **common table expressions (CTEs)** to optimize data retrieval and enhance performance.
* Engineered microservices with **Spring Boot**, **Spring Security**, **Spring Batch**, and **Spring Data JPA**, integrating with diverse databases such as **Oracle** and **MongoDB**, and developing RESTful APIs with **Spring MVC**.
* Leveraged **Snowflake’s** elastic architecture for efficient data storage and retrieval, integrating it with **Spring Data** for seamless data access.
* Published and managed APIs using the **Apigee** gateway, implemented **OAuth 2.0** for secure access control, and utilized **Spring Security** and **Hystrix** for circuit breaker patterns. Optimized services with **caching strategies**, **load balancing**, and **database indexing**.
* Monitored production systems with **Spring Boot Actuator**, **Kubernetes** logs, and **Splunk**, ensuring system health and conducting performance testing with **JMeter**. Automated build, test, and deployment pipelines with **Jenkins**, **Maven**, **Docker**, and **AWS CodePipeline**.
* Designed and maintained **PL/SQL** procedures, views, indexes, triggers, and functions using **PgAdmin**, and optimized file storage with **Grid FS** in **MongoDB** for **Spring Boot** applications.
* Integrated **DevOps** practices by using **Jenkins**, **Maven**, **Docker**, and **Kubernetes** for streamlined continuous integration and deployment, automating resource provisioning and management with **AWS CodePipeline** and **AWS CodeBuild**.
* Deployed serverless REST APIs using **AWS Lambda**, integrated with **API Gateway, S3, RDS,** and **DynamoDB** for event-driven architecture.
* Automated infrastructure provisioning using **Terraform** and **AWS CloudFormation**.
* Utilized **AWS Glue** for ETL, **CloudWatch** for logging, and **EKS** for Kubernetes orchestration.
* Developed Python **automation** scripts to handle data processing, file management, and API integrations, driving operational efficiency and minimizing manual effort.
* Developed microservices and real-time transaction engines for enterprise banking platforms at **JP Morgan Chase**, ensuring compliance with financial data standards and performance benchmarks.
* Executed automated testing using **Cypress** and **Selenium** for end-to-end web application testing, ensuring a flawless user experience across multiple platforms.
* Implemented **server-side rendering (SSR**) for performance and SEO improvements in React-based micro-frontends.
* Developed unit and integration tests using **Mocha**, **JEST**, and **Enzyme** for frontend testing, as well as **JUnit** for backend services, ensuring comprehensive coverage and minimizing defects.
* Leveraged **Google Cloud Platform (GCP)** to design and deploy cloud-native applications, utilizing **AI/ML** services for enhanced analytics and predictive capabilities.
* Implemented **multithreading** techniques in Java to optimize performance, efficiently managing concurrent processes and improving system throughput.
* Integrated and maintained **Cassandra** as a high-performance NoSQL database, ensuring scalability and fault tolerance for data-intensive applications.
* Worked with **IBM DB2** for relational data management, optimizing queries and enhancing data consistency across enterprise systems.
* Created API documentation using **Swagger / OpenAPI** and maintained versioned specs in developer portals.
* Owned CI/CD pipelines using **Jenkins, GitHub Actions,** and **AWS CodePipeline**, reducing release times by 40%.
* Integrated major payment gateways like **Stripe** and **PayPal** to facilitate secure, real-time transactions and recurring billing services.
* Developed RESTful APIs to process and track **ACH** transfers, ensuring compliance with **NACHA** file formatting and financial regulatory requirements.
* Worked on **ISO 8583** message parsing and validation for card payment transactions, integrating with downstream payment processors.
* Conducted thorough code reviews, enforced best practices, and mentored peers in **test-driven development** and **Agile methodologies**, ensuring high-quality and efficient project delivery.

**Environment:** Java 21, React.js 18, Spring Boot, Spring Security, Microservices, Spring Batch, Hystrix, Feign Client, HTML 5/CSS 3/Typescript, Material UI, Web Services, IntelliJ, Maven, PgAdmin, Apigee, Contrast Security, Accessibility, Tomcat, PostgreSQL, MongoDB, AWS, GCP, Kubernetes, Docker, Jenkins, JUnit 5, Protractor, Karma, Jasmine, Log4J 2, Splunk, JMeter, BlazeMeter, Gradle, GIT, Jira, Cypress, Selenium, Mocha, JEST, Enzyme, Cassandra, IBM DB2, ACH, SWIFT, ISO 8583, Stripe, Paypal.

**Client: Humana, Louisville, KY Apr 2020 - Feb 2023 Sr. Java Full Stack Developer**

**Responsibilities:**

* Developed **single-page applications** using **React.js 17**, **TypeScript**, **HTML5**, **CSS3**, **AJAX**, and **Material** framework, ensuring compliance with WCAG 2.0 and 2.1 standards for web accessibility.
* Implemented **AWS Lambda** functions using **Node.js** and **JavaScript** for serverless application development.
* Developed **REST API**-based integrations using **AWS API Gateway**, ensuring secure and efficient communication between services.
* Utilized **Java 18** and **Java 17** features to optimize **API development** and build microservices using **Spring Boot**, **Spring Security**, **Spring Batch**, and **Spring Data JPA**.
* Designed and developed **microservices architecture** to ensure modularity and scalability of the application. Integrated **OAuth 2.0** and **Spring Security** for secure API exposure.
* Utilized **Spring Config Server** for externalized configuration management across microservices.
* Implemented **Infrastructure as Code (IaC)** using **Terraform** and **AWS CloudFormation** to automate infrastructure provisioning and management.
* Worked with **Hibernate** for database mapping and management, ensuring effective object-relational mapping (ORM) strategies.
* Built APIs for internal credit systems, fraud detection workflows, and risk dashboards for insurance clients such as **Humana**.
* Managed content and workflows using **Adobe Experience Manager (AEM)** to enhance the user experience and improve content delivery.
* Worked with **MongoDB** for handling large datasets and implemented **GridFS** for file storage. Experienced with both **RDBMS** (Oracle, Snowflake) and **NoSQL** databases like **Cassandra** for optimized schema design and CRUD operations.
* Applied **performance tuning** techniques such as **load balancing**, **caching**, and **asynchronous processing** to enhance application performance.
* Conducted **performance testing** with **JMeter** and **BlazeMeter** to identify and resolve performance bottlenecks.
* Developed **REST**, **gRPC**, and messaging-based inter-service communication using **RabbitMQ** and **Kafka**.
* Created and maintained **API gateways** and utilized **Netflix Zuul** for service registration with **Spring Eureka**.
* Conducted **performance testing** with **JMeter** and actively worked to improve system performance and scalability.
* Created interactive **data visualization** dashboards using **Tableau**, supporting data-driven decision-making.
* Implemented **Selenium** for automated browser testing, ensuring cross-browser compatibility and seamless user interactions, while utilizing **Jest**, **Mocha**, **Karma**, **Jasmine**, **JUnit5**, **Mockito**, and **Protractor** for comprehensive unit and integration testing across the application.
* Integrated **data transformation and migration logic** within **Informatica** to ensure smooth synchronization and data migration between systems.
* Deployed and managed **Docker containers** with **Kubernetes** on **Amazon EKS**, ensuring high availability and scalability of microservices.
* Utilized **DevOps** practices, automating the deployment process and optimizing the software delivery pipeline.
* Developed and maintained applications using **Azure** cloud services for cross-platform compatibility and integration.
* Managed and optimized **CI/CD pipelines** using **AWS CodePipeline**, **CodeBuild**, **CloudFormation Templates (CFT)**, and **AWS Glue**, automating deployment and data integration workflows to ensure smooth and efficient software delivery.
* Utilized **AWS EC2** to provision and manage scalable compute resources, ensuring high availability and cost-efficiency for the application infrastructure.
* Participated in **Agile (SCRUM)** methodology, contributing to the full software development lifecycle (SDLC), including requirement gathering, analysis, design, development, testing, and deployment.

**Environment:** Java 18.0, React.js 17, Spring Boot, Spring Security, Eureka, HTML/CSS/TypeScript, Material, Web Services, Microservices, Maven, IntelliJ, APIGEE Edge, Apigee CLI, Gradle, Jenkins, GIT, Contrast, Twistlock, Tomcat, Apache Kafka, MongoDB, AWS, Azure, Kubernetes, Docker, Concourse, JUnit 5.0, Protractor, Karma, Jasmine, Jira, Selenium, Hibernate, Cassandra, GO (Golang), AEM, Tableau, JMeter, BlazeMeter.

**Client: Dollar General, Goodlettsville, TN Jan 2016 - Mar 2020 Production Engineer**

**Responsibilities:**

* Developed and maintained backend systems using **Core Java**, **Spring**, and **Spring Boot**, focusing on high-performance, low-latency applications and distributed systems.
* Designed and implemented **REST APIs** for efficient data handling, ensuring smooth communication between microservices and external systems.
* Integrated **low-latency messaging systems** like **Kafka** and **RabbitMQ**, optimizing data streaming, messaging, and processing to support high-throughput, event-driven architectures.
* Employed **multithreading** and concurrency techniques to design and implement scalable systems, ensuring high availability and fault tolerance in large-scale distributed environments.
* Utilized **Junit**, **Mockito**, **SonarQube**, and **JMeter** to write comprehensive **unit and integration tests**, ensuring robust code quality and performance testing in a **Continuous Integration (CI)** environment.
* Applied **design patterns** such as Singleton, Factory, and Observer to ensure efficient, maintainable, and scalable code architecture.
* Conducted **performance tuning** and **optimization** strategies, utilizing tools such as **JProfiler** and **VisualVM** to monitor and enhance system efficiency.
* Worked with **caching strategies** (e.g., **Redis**) to improve application performance and reduce data retrieval times for high-traffic applications.
* Developed and supported **event-driven architectures** and **message-driven systems**, leveraging tools like **Kafka** and **ActiveMQ** for messaging.
* Supported **Service-Oriented Architecture (SOA)** designs and optimized database access using both **relational** and **NoSQL databases**, ensuring optimal system performance and scalability.
* Utilized **Gradle** and **Maven** for build management, optimizing dependency management and ensuring seamless development and deployment processes.
* Worked extensively with **Asynchronous Programming** to enable high-throughput and low-latency data processing, critical for real-time applications and eCommerce systems.
* Provided production support, troubleshooting complex issues, ensuring minimal downtime, and resolving performance bottlenecks in large-scale, client-server systems.
* Collaborated with business and technical partners to design, implement, and support **high-throughput trading applications** in a retail or eCommerce environment, ensuring smooth integration with backend systems and optimal performance.
* Worked with **hybrid cloud** environments, integrating on-premise infrastructure with public and private clouds to ensure seamless scalability and flexibility.
* Provisioned and managed **EC2 instances** on AWS, optimizing resources for scalable application deployment and ensuring cost-effective operation.
* Utilized **AWS S3** for secure and scalable file storage, integrating it into the application for efficient data management and backup solutions.
* Implemented serverless solutions using **AWS Lambda**, automating processes and reducing the need for infrastructure management, improving scalability and performance.
* Applied **Agile/XP development** methodologies, collaborating closely with cross-functional teams in **pair programming** sessions for complex feature development and knowledge sharing.
* Continuously improved application architecture and code quality by following best practices, mentoring junior developers, and staying up-to-date with emerging technologies and industry trends.

**Environment**: Java 8, Groovy, Spring Boot, Spring MVC, Spring Security, **Apache Camel, Kafka, RabbitMQ, IBM MQ, ActiveMQ, Oracle, PostgreSQL, Cassandra, MongoDB, Redis, AWS EC2, AWS Lambda, JUnit, Mockito, Protractor, Spock, SonarQube.**

**Client: Aditya Birla Cap, India Jun 2013 - Dec 2015 Java/J2EE Developer**

**Responsibilities:**

* Contributed to all phases of the project lifecycle, including design, development, testing, and production support, following Agile methodologies.
* Utilized **multithreading** to optimize application performance and enhance system scalability.
* Developed complex applications using **Struts**, **Spring MVC**, and design patterns such as **Singleton**, **Business Delegate**, **Façade**, and **DAO**.
* Leveraged **Java 8** features like **Lambda expressions**, **Streams API**, and **Java 9** features like the **module system** for more efficient application development.
* Developed **SOAP web services** using **Apache CXF** and **Spring Framework**, integrating them seamlessly into the system.
* Designed and developed user interfaces with **Spring View**, **HTML**, **CSS**, **JavaScript**, and **JSP**, following the **MVC architecture**.
* Utilized **JMS** for messaging integration and applied **Spring MVC annotations** for efficient dependency injection.
* Developed complex **SQL**, **HQL** queries, and stored procedures, interacting with Oracle databases via the **DAO layer**.
* Automated build and deployment processes using **Apache ANT**, **Maven**, and **Jenkins** for **CI/CD** in WebLogic server environments.
* Actively participated in **OOA&D** sessions, designing systems based on **Spring MVC** and integrating **Hibernate ORM** for persistence in Oracle.
* Created and maintained **REST APIs** using **Jersey RESTful Web Services** for data publication and dashboard integration.
* Implemented **logging** via **Log4J** to track and troubleshoot application issues effectively.
* Coordinated with QA teams to develop test plans, identify issues, and perform defect resolution.
* Designed and developed a **RMS application** for demand forecasting and revenue maximization.
* Contributed to the integration of **core banking systems** with external **payment gateways** and **ACH/SWIFT rails**, improving the settlement and clearance workflows.
* Designed and optimized modules for processing international fund transfers using **SWIFT MT103/MT940** messages and local transactions through **ACH debit/credit** instructions.

**Environment:** JDK 8, Java 8, Spring 4 (DI, MVC, Transaction Management, Integration, AOP), Hibernate 5.0, JAX-RS, JAX-WS, React.js, jQuery, AJAX, Bootstrap 3.x, HTML/CSS/JS, Toad, Junit 4, Jenkins, Maven, Microservices, WebLogic 7.0, XML, JMS, Apache ANT, Rational Rose, ACH, SWIFT.