

Praneeth Reddy M

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SUMMARY

Software Engineer with 5+ years of experience designing and delivering scalable enterprise applications using Java, Spring Boot, Python, and microservices architecture. Strong expertise in building cloud-native, distributed systems, real-time data pipelines, and secure APIs for large-scale data-driven platforms. Experienced in working with sensitive and regulated data environments including healthcare and biomedical systems, with strong emphasis on security, role-based access control, and compliance-oriented design. Proven ability to architect backend systems, develop interactive React-based dashboards, and optimize data workflows using asynchronous processing and event-driven architectures in Agile environments.

SKILLS

Programming:	Java, Python, SQL, JavaScript, HTML, CSS
Backend & APIs:	Spring Boot, Spring MVC, Spring WebFlux, REST APIs, WebSockets, Microservices Architecture
Frontend:	React.js, Redux, Material UI, Responsive UI Development
Data & ETL:	Data Pipelines, Data Processing, Kafka Streaming, Data Transformation, Analytical Workflows
Cloud & Infrastructure:	Google Cloud Platform (GKE, Cloud Run, Cloud SQL, Pub/Sub, Compute Engine), Amazon Web Services (EC2, S3, RDS, Lambda), Microsoft Azure, Azure Kubernetes Service (AKS), Kubernetes, Docker.
Databases & Data Systems:	PostgreSQL, MySQL, Oracle, MongoDB, Redis, Data Modeling
DevOps:	Docker, Jenkins, GitLab CI/CD, CI/CD Pipelines, SonarQube
Security:	OAuth 2.0, Role-Based Access Control, Secure API Design
Healthcare & Domain Exposure:	Biomedical Data Systems, Secure Data Handling, Clinical Data Applications (Exposure to healthcare data environments)
Architecture:	Microservices, Event-Driven Systems, Scalable System Design, Design Patterns
Analytics & AI/ML:	Data preprocessing, NLP integration, AI-driven pipelines, speech-to-text processing

PROFESSIONAL EXPERIENCE

Rabobank, USA

Jul 2025 – Present

Role: Software Developer

- Designed and developed cloud-native Java Spring Boot microservices for a cooperative banking intelligence platform hosted on Google Cloud Platform, enabling secure real-time financial analytics, customer activity tracking, and distributed transaction processing across enterprise banking systems.
- Architected scalable microservices using Spring Boot, Spring Cloud, and event-driven design patterns, allowing independent deployment of business modules such as customer onboarding, transaction monitoring, ESG reporting, and financial reconciliation workflows.
- Built Kafka-based asynchronous messaging pipelines to process high-volume banking transactions and customer interaction events in real time, significantly reducing processing latency and improving data availability for downstream analytics applications.
- Developed batch processing jobs using Spring Batch for scheduled data ingestion and transformation.
- Implemented persistence using JPA/Hibernate with optimized entity mapping and transaction management.
- Integrated enterprise systems using IBM MQ/JMS and XML-based messaging for asynchronous communication.
- Developed secure RESTful APIs and WebSocket communication services using Java, Spring Boot, OAuth 2.0, and role-based access controls, enabling secure integration between internal banking systems, third-party financial platforms, and customer-facing applications.
- Containerized microservices using Docker and deployed applications on Kubernetes clusters in GCP environments, improving scalability, fault tolerance, service orchestration, and deployment consistency across development and production environments.
- Implemented CI/CD pipelines using Jenkins and GitLab CI/CD to automate build validation, testing, deployment, and rollback processes, reducing manual deployment effort and improving release reliability for enterprise banking applications.
- Integrated distributed caching strategies using Redis and optimized PostgreSQL queries through indexing, query tuning, and asynchronous processing techniques, improving API response times and overall platform performance during peak financial transaction loads.
- Developed Python-based asynchronous ETL and data transformation pipelines for ingesting and processing large-scale financial and sustainability datasets, enabling near real-time reporting and analytics for enterprise stakeholders.

- Created React.js and Material UI based dashboards to visualize financial insights, customer lifecycle analytics, ESG metrics, and operational KPIs, allowing business users and analysts to monitor enterprise data through interactive reporting interfaces.
- Led modernization initiatives by refactoring legacy monolithic banking modules into reusable microservices architecture, improving maintainability, scalability, onboarding efficiency, and development productivity for multiple engineering teams.
- Collaborated closely with DevOps, QA, business analysts, and product teams in Agile environments to gather requirements, perform sprint planning, conduct code reviews, and ensure successful delivery of scalable cloud-native enterprise applications.
- Worked extensively with secure financial data processing systems following compliance-driven development standards, implementing secure API design, authentication workflows, and access management controls for regulated banking environments.

Technologies: Java, GCP, Python, Spring Boot, SQL, Git, Selenium, Azure Kubernetes Service (AKS), OAuth 2.0

Axle Informatics, USA

Jan 2024 – Mar 2025

Role: Software Engineer

- Developed a biomedical data management platform to support researchers in managing and analysing clinical datasets through secure and scalable web applications.
- Designed and implemented RESTful APIs for structured data ingestion, validation, and retrieval workflows using backend services and relational databases.
- Built data processing pipelines in Python to clean, transform, and prepare datasets for downstream analytics and machine learning applications.
- Implemented role-based authentication and secure access mechanisms to ensure data privacy and regulatory compliance across the platform.
- Collaborated with stakeholders to gather requirements and translate them into functional and technical design specifications for product enhancements.
- Conducted unit and integration testing using JUnit and testing frameworks to ensure application stability and reliability across deployments.
- Automated deployment workflows using containerization and CI/CD pipelines, ensuring consistent delivery and environment reproducibility.

Technologies: Java, Python, Rest API's, PyTest, GitLab CI/CD, HTML5, CSS3, React.js

Vsion Technologies Inc., India

Mar 2020– Jul 2023

Role: Software Development Engineer

- Designed and developed a web-based logistics management platform using Spring Boot and React.js, streamlining shipment tracking, warehouse operations, and delivery coordination across regional hubs.
- Implemented RESTful APIs to support key product features such as shipment lifecycle management, route optimization, and real-time driver updates, reducing reliance on manual status inputs.
- Built an interactive front-end interface with React, Redux, and Material UI, enabling dispatchers to monitor fleet movement, assign routes, and manage exceptions through a unified dashboard.
- Orchestrated the integration of shipment data from global carriers (FedEx, DHL, Maersk) via third-party APIs, increasing shipment visibility and reducing customs clearance delays.
- Developed intelligent inventory dashboards using React and D3.js, providing supply chain managers with real-time analytics on stock levels, backorders, and replenishment cycles, helping reduce excess inventory.
- Integrated PostgreSQL and Redis to handle high-volume transactional data and caching frequent queries, enhancing system responsiveness during peak logistics operations.
- Led CI/CD automation using Jenkins, Docker, and GitLab, ensuring reliable feature delivery and reducing delays between development and deployment phases.
- Led the cloud migration of legacy logistics data to AWS (EC2, S3, RDS), improving data availability uptime and enabling scalable processing for daily transactions.

Technologies: Java, Spring Boot, React, Cucumber, Docker, AWS

EDUCATION

- **Master of Science**, University of North Texas, Denton, TX
GPA: 3.4