## HARISH

## SUMMARY:

* Experienced **Full Stack Python Developer** with **7 years** of expertise in designing and building dynamic web applications, specializing in financial services and technology domains.
* Proficient in building **microservices** and **RESTful APIs** using **Python**, **Django**, and **Node.js**, leading to significant improvements in system performance.
* Skilled in frontend development with **React.js** and **Angular.js**, enhancing user experience and interactivity.
* Experienced in managing databases, including 3 **SQL** (**Oracle**, **PostgreSQL**, **MySQL**) and 2 **NoSQL** (**MongoDB**, **Cassandra**) technologies.
* Implemented **AWS solutions** (**EC2**, **S3**, **RDS**) and utilized **Docker** and **Kubernetes** for containerization and CI/CD pipelines.
* Achieved a 30% improvement in system responsiveness and a 15% reduction in page loading times through performance optimizations.
* Strong advocate for **Agile methodologies**, actively participating in **Scrum ceremonies** for collaboration and continuous improvement.
* Integrated **OAuth2** and **JWT** for secure user authentication, enhancing overall application security.
* Experienced in **MVW frameworks** like **Django**, **Angular**, **JavaScript**, and **jQuery**.
* Worked on **Python OpenStack RESTful APIs**.
* Experience in creating **Docker containers**, leveraging existing **Linux Containers** and **AMI's**, in addition to creating Docker containers from scratch.
* Experienced with **Software Development Life Cycle (SDLC)**, **PostgreSQL**, **GIT**, strong experience in **data engineering**, **database designs**, **agile methodologies**, **coding**, and **testing of enterprise applications** and IDEs such as **Jupyter Notebook**, **PyCharm**, **Emacs**, **Spyder**, and **Visual Studio**.
* Proficient in frontend development experience using **Python 3.8**, **Django**, **HTML**, **XML**, **AWS**, **CSS**, **JavaScript**, **Bootstrap**, **jQuery**, **JSON**, **Angular.js**, and **Node.js**.
* Developed **real-time features** using **WebSockets** in both **Python** and **Node.js**, improving user interaction in applications.
* Utilized **data analysis libraries** such as **NumPy**, **Pandas**, and **Matplotlib** for reporting and analytics.
* Leveraged **Node.js** for building scalable backend services, facilitating asynchronous communication and efficient data handling.

**TECHNICAL SKILLS:**

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| **Front-End Technologies** | HTML, CSS, Bootstrap, Material UI, JavaScript, Typescript, ES6, React JS, Redux, React Hooks, Angular JS, Tailwind, JQuery, JSON, AJAX, XML |
| **Back-End Technologies** | Python, NodeJS, ExpressJS, Django, Flask, RESTfulAPI, Webservice, Microservices, RESTAPI, FASTAPI, GraphQL |
| **Libraries** | NumPy, Pandas, Matplotlib, SciPy, NLTK, Scikit-Learn, Keras, TensorFlow, PyTorch, Beautiful Soup, Requests, OpenCV |
| **Methodology** | Waterfall, Agile Scrum, Agile Kanban |
| **IDEs** | Visual Studio Code, PyCharm, Spyder, NetBeans, Jupyter Notebook, Atom, IntelliJ IDEA, Eclipse, |
| **Web Services** | RESTful, SOAP |
| **Databases** | SQL, MongoDB (NoSQL), PostgreSQL, MySQL, Firebase, SQLite, Redis |
| **CI/CD & Tools** | Jenkins, Code Ship |
| **Testing tools** | Mockito, React Testing Library, Jest, PyTest, Unittest |
| **Cloud & Deployment** | AWS, Docker, Kubernetes, Google Cloud Platform |
| **Web Server** | Apache Tomcat, WebLogic |
| **Other Tools** | Jira, Git, SVN, Ant, GitHub, Gitlab, Swagger/OpenAPI, Postman |
| **Operating Systems** | Windows, LINUX, Mac OS, UNIX |

**EDUCATION:**

* Masters in Computer Science – University of Central Missouri, MO, USA.
* Bachelors in Electrical & Electronics Engineering – Jawaharlal Nehru Technological University, Hyderabad, India.

**PROFESSIONAL EXPERIENCE:**

**The Guardian Life Insurance Company, PA August 2023 - Till Date**

**Role: Python Developer**

**Responsibilities:**

* Developing and implementing robust microservices using Python and Django, contributing to a notable 30%
* improvement in system responsiveness.
* Utilizing Memcached for seamless interaction with databases, implementing optimizations that resulted in a reduction in data retrieval times.
* Worked on several python packages like NumPy, Matplotlib, Beautiful Soup, Pickle, PySide, wxPython, PyTables etc.
* Experienced in HTML/HTML5, DHTML, CSS/CSS3, JavaScript, JQuery, Angular JS, AJAX, XML and JSON.
* Developing RESTful APIs with Django, facilitating real-time data updates, and contributing to a 15% decrease in page loading times.
* Hands on experience with various application servers and web servers including Apache Tomcat, Apache http servers, Web logic and WebSphere.
* Architected and developed Python and Django for the backend development and front-end application using React, Webpack, Redux, and ES6/7 and GraphQL for the database.
* Developed SQL Queries, Stored Procedures, and Triggers Using Oracle, SQL and PL/SQL.
* Created APIs, database Model and Views Utilization Python to build responsive web page application.
* Integrating secure authentication and authorization mechanisms, leveraging JSON Web Tokens (JWT) and OAuth protocols, enhancing the overall security posture of the application.
* Implementing internationalization features using i18n libraries in React, enabling the application to support multiple languages and locales for the client’s facility.
* Integrating AWS CloudWatch for logging and monitoring, enabling real-time visibility into application performance, resource utilization, and error tracking for the customer platform.
* Created Python and Bash tools to increase efficiency of operations: data conversion scripts, REST, JSON, and CRUD scripts for API Integration
* Utilized pandas, NumPy, SciPy, and NLTK libraries to create unique reports and analysis
* Integrating Docker into CI/CD pipelines, enabling automated testing, building, and deployment of containerized applications, resulting in a streamlined and consistent release process.
* Performed S3 buckets creation, policies on IAM role based polices, MFA and customizing the JSON template.

**Environment:** Python, Django, Flask, JavaScript, React, Redux, ES6/7, AngularJS, Bash, HTML5, DHTML, CSS3, JSON, XML, AJAX, NumPy, Pandas, SciPy, Matplotlib, Beautiful Soup, NLTK, PyTables, Bootstrap, Oracle, SQL, PL/SQL, MySQL, AWS, Docker, Kubernetes, Git, Jenkins

**Tata Consultancy Services, India April 2021 - December 2022**

**Role: Full Stack Python Developer**

**Responsibilities:**

* Designed and developed web applications for the financial services industry to manage company reporting, increasing user adoption by 15%.
* Formulated Angular components that will allow users to create customizable tables and 25+ types of charts.
* Developed report templates which are compatible with various data sources, resulting in a 40% less response time.
* Designed and implemented highly responsive web applications using ReactJS for the frontend and NodeJS with ExpressJS for the backend, serving over 100,000 users monthly.
* Developed Order fulfillment Microservice while listens to WebSphere Message Queue for Line Complete messages and signals BPM.
* Worked on Node.js Middleware framework like Express.js, essentially developed microservices and serve them through middleware. Served any Client-side libraries through microservice.
* Developed Consumer - based custom features and applications using Python, Kubernetes, Docker, ajax, Cassandra, Django, MongoDB, Matplotlib, AWS and HTML.
* Developed an enterprise MEAN Stack application by writing server-side code with Node.js and Express framework, a database to store and retrieve data with MongoDB and front-end web pages designing with ReactJS.
* Worked with modules like MongoDB and mongoose for database persistence using Node JS to interact with mongo db.
* Built and maintained RESTful and GraphQL APIs to facilitate seamless data exchange between the client side and the server.
* Integrated OAuth2 authentication for secure user login and API access control, improving system security and enhancing user trust.
* Worked on Microservice architecture development using Python and Docker on an Ubuntu Linux platform using HTTP/REST interfaces with deployment into a multi-node Kubernetes environment.
* Developed a role-based access control (RBAC) system to manage user permissions and data visibility, increasing security compliance by 20%.
* Worked closely with the DevOps team to deploy applications to AWS EC2 and automate deployment processes using Jenkins and Docker.
* Involved in development of test environment on Docker containers and configuring the Docker containers using Kubernetes.
* Implemented AWS solutions using E2C, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.
* Implemented JWT authentication and user session management for secure access to sensitive resources.
* Developed a real-time chat feature using WebSockets, improving user interaction and communication within the platform.
* Created a CI/CD pipeline using Jenkins, which reduced deployment time by 30% and improved overall productivity.
* Developed an automated Python script utilizing the Apigee Edge API to create and configure proxies and products, enabling the generation of 50+ proxies in a single execution.
* Used Kafka Stream in a service to update MySQL database whenever the user modifies the object in an application.
* Used Swagger specification for documenting REST APIs which exposes description of a RESTFUL web service to different clients.
* Maintained codebase integrity and facilitated collaboration by using Git for version control.

**Environment:** Django, Python, Kubernetes, Docker, Cassandra, MongoDB, Matplotlib, AWS, WebSockets, Jenkins, MySQL, MongoDB, Git, OAuth2, JWT, WebSphere Message Queue, HTML, CSS, JavaScript, GraphQL, RESTful APIs, Jenkins CI/CD pipeline.

**Sagarsoft India Limited, Hyderabad, India June 2019 - March 2021**

**Role: Python Developer**

**Responsibilities:**

* Designed and developed web applications backend functionalities using Python and JavaScript.
* Customized the UI in accordance with the updated backend logic using Django framework.
* Followed Coding standards and best practices to write reusable and efficient code.
* Assisted in the development of RESTful APIs to enable communication between the backend and frontend systems.
* Participated in testing applications, identifying bugs, and debugging code to ensure optimal performance.
* Worked closely with senior developers and team members to understand project requirements and deliver solutions.
* Used Version Control like Git to manage and track changes in code.
* Provided the Support for deployment of changes into various environments and performed unit testing in each phase.
* Used Nodejs to structure JavaScript code to build endpoints.
* Implemented SQL queries to create the database design and management.
* Participated in team meetings to analyze the root cause of the critical bug fixes.
* Performed Unit Test Cases after every release into various environments and drafted the documentation.
* Used Web services (SOAP and RESTful) for transmission of large blocks of XML/JSON.

**Environment Tools:** Python, JavaScript, Django, RESTful APIs, Node.js, SQL, Git, SOAP, JSON, XML, Web Services, Unit Testing Frameworks, Version Control Systems, PostgreSQL/MySQL, Linux/Unix Shell, Jenkins, Visual Studio Code, JIRA

**Hansa Solutions, Hyderabad, India January 2017 - March 2019**

**Role: Python Developer**

**Responsibilities:**

* Using Python and Django Framework to develop the backend of the web application, along with REST API.
* Developed Restful Microservices using Django and deployed on AWS servers using EBS and EC2.
* Worked on No SQL and collaborated with Database team knowledge in creating schemas in Mango DB
* Experienced in developing web-based applications using Python, Java Django, HTML, DHTML, JavaScript and jQuery.
* Have a good understanding of today's security and data protection requirements and are experienced in API/microservice design.
* Developed and executed the test scripts with Selenium WebDriver and Java.
* Experienced in installing, configuring, modifying, testing, and deploying applications with Apache.
* Deployed AWS Lambda code using Amazon S3 buckets. Created Lambda deployment functions and configured it to receive events from S3 buckets.
* Optimize the PySpark jobs to run on Kubernetes Cluster for faster data processing.
* Used a test suite to validate the code while developing the web application.
* Used Bit Bucket to push and pull code from the master branch, created local branches to work on the code on my system before committing back to the master branch.
* Good Experience with Django, a high-level Python Web framework.
* Experience object-oriented programming (OOP) concepts using Python.
* Worked on data cleaning and ensured data quality, consistency, integrity using Pandas.

**Environment:** Python, Django, NumPy, Pandas, Matplotlib, AWS, Postgre SQL, HTML, CSS, SOAP API, GIT, Maven, Jira, XML, Agile, Windows.