Govind Asawa

Software Engineer

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SUMMARY

Software Development Engineer with 3+ years of experience in designing, developing, and deploying scalable web applications and RESTful APIs. Proficient in Java, Python, & JavaScript with a strong understanding of microservices architecture and database design. Passionate about optimizing system performance and enhancing customer experience through innovative solutions.

SKILLS

Programming Languages: Java, Python, JavaScript, Shell Scripting
Databases: PostgreSQL, MySQL, Redis, MongoDB, MariaDB, TimescaleDB
Frameworks/Tools: Spring framework, Spring Boot, Hibernate, Flask, React.js, jQuery, Maven, Tailwind CSS, HTML, REST API, AWS, Jenkins, Spinnaker, Apache camel, Rabbitmq, Kafka, Git, SVN, JIRA, Confluence, Postman, Burp, Vault, OAuth
Development Practices: Code Review, Clean code, Design Patterns, SOLID, Agile, Scrum, SDLC, CI/CD
Operating System: Linux, Windows

EXPERIENCE

Software Engineer Intern   **Aug 2024 – Present**
Copart   Dallas, Texas, USA

- **Microservices:** Developed a Spring Boot microservice with a TimescaleDB-based pipeline to automate metric aggregation and hourly forecasting, improving SLA compliance by 20%; secured configs with Spring Cloud Config and Vault.
- **Scalable API Design:** Refactored a monitoring metrics REST API into a reusable, page-agnostic format, cutting development effort by 80% and improving system flexibility.
- **Enterprise Integration Patterns:** Streamlined inter-service communication by introducing Apache Camel routes, reducing boilerplate code by 60% and enabling rapid integration of new microservices with minimal configuration.
- **Machine Learning:** Built and Dockerized a Python Flask app for anomaly detection using MSTL & Prophet forecasting models, achieving 95% accuracy; leveraged Celery with RabbitMQ for distributed tasks & SFTP for secure remote model storage.
- **Performance Optimization:** Reduced cron job runtime by 10% by applying multi-threading and redesigning Redis caching with multiple keys and efficient data structures.

Software Engineer   **Oct 2022 - Aug 2023**
OpenText Technologies   Hyderabad, India

- **Full stack Development:** Contributed to an annual revenue increase of $800K by enhancing Content Hub for Publishers using JavaScript (React.js, jQuery) and Spring Boot.
- **Feature Development:** Implemented 30+ end-to-end product features, improving user experience and functionality.
- **Resilience:** Improved reliability of Content Hub's external API interactions by incorporating resilience4j in Spring Boot microservices, enabling retries and fallback logic to improve system stability under load.
- **Production Deployment:** Led production deployment processes, approvals for Change Requests, & troubleshooting issues.
- **API Integration:** Integrated Shutterstock and Getty REST APIs, automating asset imports and reducing manual effort by 40%.

Associate Software Developer   **Aug 2020 - Sep 2022**
OpenText Technologies   Hyderabad, India

- **UX Improvement & Performance:** Built a React table with server-side pagination and sorting via Spring Boot, cutting data load time of contributors by ~1 seconds per request, reducing network payload & delivering smoother user experience.
- **Security Enhancements:** Engineered a password encryption mechanism using Java and Bash, mitigating potential vulnerabilities and improving security by 70% as flagged by Fortify scans.
- **Plugin Development:** Built a JavaScript plugin to clean user inputs using regex, reducing text formatting efforts by 95%.
- **System Stability:** Resolved 20+ vulnerabilities flagged by Fortify, improved code quality, conducted root cause analysis for recurring issues, boosting overall system uptime and stability.
- **Automation:** Built a Java solution to parse XML, extract data, and store it in SQL database, automating 80% of processing tasks.

PROJECTS

Eventique, Link

- Built a single-page event planning application with an interactive calendar by leveraging React.js and Tailwind CSS for a user-friendly interface, Django with Gemini API for seamless functionality and Docker for containerization, employing agile practices.

US Car Accidents, Link

- Processed 7.7 million rows using python to forecast severity of car accidents in the USA with an accuracy rate of 87%.

Share-me, Link

- A Pinterest-style image-sharing web app built with React, Tailwind CSS, & Sanity (backend & Database) to deliver modern, responsive UI with Google OAuth for seamless user authentication.

EDUCATION

University of North Texas, *Master of Science, Computer Science*   **Aug 2023 – May 2025**
Coursework: Advanced Algorithms, Data structures, Software development, Database systems   Denton, TX, USA

JNTUH, *Bachelor of Technology, Computer Science and Engineering*   **Aug 2017 - Aug 2021**
Coursework: Algorithms & Data structures, Object oriented programming (Java), Operating systems   Hyderabad, TS, IN