Satya Sai Praveen Andra

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Education

Indiana University — Bloomington, IN
Master of Science in Computer Science — *August 2023 – May 2025*

Andhra University — India
Bachelors of Technology in Electronics & Communication Engineering — *August 2017 – May 2021*

Experience

Software Engineer — September 2021 – July 2023
Ford Motor Private Limited — *Chennai, India*

- Engineered 10 high-performance microservices using Java, Spring Boot, and REST APIs for an E-commerce platform, enhancing scalability and response times by implementing advanced design patterns.
- Achieved a 25% improvement in deployment efficiency and minimized operational costs by 20% through migration of 16 microservices from Pivotal Cloud Foundry to Google Cloud Platform (GCP).
- Spearheaded the overhaul of CI/CD processes by integrating Tekton, transitioning 10+ pipeline applications from Jenkins, which reduced deployment times by 50% and boosted overall deployment reliability by 40%.
- Designed a responsive SPA with Angular, Node.js, and Spring Boot, optimizing API interactions to handle 60,000+ monthly page views, driving a 60% increase in user engagement.
- Pioneered the adoption of Test-Driven Development (TDD) within the CI/CD pipeline, utilizing JUnit and Mockito to achieve 99% code coverage and reduce production bugs by 50%, ensuring higher software quality and reliability.
- Optimized continuous code quality checks with custom SonarQube rules and FOSSA integration, eliminating license violations and reducing security vulnerabilities by 90%.
- Increased project efficiency by 20% and shortened code review times by 30% through the effective direction of daily standups and agile scrum practices, benefiting a team of 15-20 engineers.
- Ensured timely delivery of high-quality software, achieving a 15% reduction in bugs and 10% faster release cycles by managing the entire SDLC using Git Flow and Jenkins for continuous integration.

Skills

Programming Languages: Java, Python, JavaScript, TypeScript, SQL, C, HTML/CSS
Frameworks & Libraries: Spring Boot, Angular, React, Node.js, Express, Django, Kafka, Pub/Sub, JUnit
Developer Tools & DevOps: Git, Docker, Terraform, Packer, Jenkins, Ansible, Postman, VS Code, PyCharm, IntelliJ, Webstorm, Eclipse, Splunk, Tekton
Cloud Platforms: AWS (EC2, RDS, S3, CloudWatch, Secrets Manager), Google Cloud Platform
Databases: PostgreSQL, MS SQL, Oracle SQL, MySQL, MongoDB

Projects

RentItAll (Rental Services) | *Express. js, React, PostgreSQL, Node.js, Docker*

- Headed development of RentItAll, a full-stack web app using the PERN stack to manage 100+ listings and 1,000+ monthly transactions. Implemented user registration, and secure login for enhanced functionality.
- Created backend services using Node.js and Express.js, facilitated JWT authentication, search and filter functions, reducing response time by 30% and improving user experience.
- Employed Docker for containerization, boosting deployment efficiency, and incorporated real-time messaging, email notifications, and a ticket system for improved user communication and support.

Quick Ticket (Ticket Booking) | *Spring Boot, Java, Gradle, SQL, Git*

- Built the backend of QuickTicket, a Java-based application using Spring Boot and REST API, implementing CRUD operations to efficiently manage ticket availability and bookings.
- Secured sessions with JWT authentication and optimized MS SQL, cutting response time by 25%.
- Improved the development pipeline by utilizing Gradle for automated builds and Git for version control, ensuring consistent integration, smooth collaboration, and streamlined deployment across multiple environments.

Cloud-Native Java Application Deployment with Terraform & DevOps Automation | *AWS, Terraform, Ansible*

- Enabled high availability and accelerated application rollouts by 30% for a cloud-native Java application through a well-architected CI/CD pipeline on AWS, using Terraform to provision necessary infrastructure.
- Maintained 99.9% uptime by integrating AWS Secrets Manager and CloudWatch for secure and efficient monitoring, which led to faster detection and resolution of issues.