TINA DEVARASHETTY

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Summary

Software Engineer with 2 years of experience delivering scalable backend systems, microservices, and data-driven solutions in fast-paced Agile environments. Proficient in Java, Python, Spring Boot, AWS, and CI/CD automation, with hands-on expertise in cloud architecture and data platforms like Snowflake and Spark. Passionate about writing clean, efficient code and collaborating across teams to solve real-world problems. Proven success in healthcare and fintech domains, with a strong foundation in system design, scalable API development, and performance-driven cloud applications.

Education

George Mason University

May 2025

Master of Science, Computer Science

Professional Experience

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May 2022 - Jun 2023

Software Engineer

India

- Engaged in full Software Development Life Cycle (SDLC), actively contributing to requirement analysis, design, implementation, testing, and deployment within an Agile environment.
- Integrated Gradle with Jenkins CI/CD pipelines to automate build and deployment, cutting release cycles from 4 to 2.5 hours for the engineering team.
- Built RESTful APIs with Spring Boot and AWS Lambda to connect third-party lab services, processing 500+ daily test bookings for diagnostic partners.
- Designed a microservices architecture using Spring Cloud and Docker to decouple the patient records module, improving system uptime from 99.2% to 99.8%.
- Optimized SQL queries and Snowflake pipelines to reduce data processing time from 15 minutes to 8 minutes for analytics reports.
- Collaborated with 5 frontend engineers to refactor legacy JavaScript code, eliminating 200+ linting errors for better maintainability.
- Deployed Spark jobs on AWS EMR to process 10GB/day of patient interaction logs, enabling faster trend analysis for business teams.
- Implemented Kafka Connect for data integration, facilitating seamless data movement between Kafka and diverse data sources and sinks. Documented API contracts and deployment playbooks to streamline onboarding for new team members, cutting setup time by 3 hours.
- Mentored 2 junior developers in code reviews and debugging to accelerate feature delivery for the Agile team.
- Assisted in developing RESTful APIs using Java/Spring Boot for device trade-in workflows, cutting processing time by 20%.
- Improved data retrieval and storage capabilities by restructuring API design, while maintaining existing systems through code reviews, bug fixes, and a commitment to operational excellence.
- Proactively detected and addressed software risks by adding new approval steps to pipelines, ensuring healthy pipeline maintenance and minimizing failures.
- Identified and fixed 15+ critical bugs in payment gateway integrations, increasing transaction success rates by 10%.
- Assisted in migrating legacy monolithic code to modular microservices, improving code maintainability by 20%.
- Participated in Agile sprints, completing 90% of assigned tasks on time and contributing to team velocity improvements.

PhonePe

Jun 2021 - Dec 2021

India

Software Developer Associate

- Developed UPI/QR payment features using Java (Spring Boot), enhancing transaction processing for 10M+ users and supporting secure cloud-based payment applications.
- Optimized SQL queries (MySQL/PostgreSQL), reducing report generation time by 15% for financial analytics while maintaining reliability in cloud-hosted
- Automated log analysis with Python scripts, saving over 5 hours per week in debugging efforts and assisting in proactive cloud performance monitoring.
- Resolved idempotency issues in payment APIs to reduce failed transactions by 12%, demonstrating effective technical issue resolution in a cloud environment.
- Authored unit tests (JUnit/Mockito) that increased code coverage to 85%, contributing to higher quality standards and consistency in cloud service deployments.
- Supported Selenium automation initiatives that cut critical payment flow testing time by 30%, ensuring smooth rollout and maintenance of cloud-based applications.

Technical Projects

LSTM-based Traffic Volume Prediction System

- Built an LSTM neural network using Keras/TensorFlow to predict traffic volumes based on time-series data from open transport datasets.
- Engineered features with Pandas, NumPy, and visualized insights via Matplotlib for temporal and trend-based patterns.
- Served predictions through a Flask REST API, containerized with Docker, and deployed on AWS EC2 for scalable access.
- Integrated Prometheus and Grafana for real-time monitoring of prediction accuracy, latency, and API health.
- Leveraged MLflow for experiment tracking and model versioning, enabling reproducible results and seamless rollback testing.

Real-Time Task Collaboration Platform

- Built a live collaboration tool using React and Django REST Framework with WebSocket support for real-time task updates.
- Implemented JWT-based authentication and Role-Based Access Control (RBAC) for secure, team-specific workflows.
- Improved app performance by 40% using Redis for caching and optimized SQL queries with indexing and pagination strategies.
- Deployed fully on AWS (EC2, S3, Lambda) with version control and CI/CD pipelines using GitHub Actions.
- Designed the WebSocket architecture using ASGI and Redis pub/sub, handling over 500 concurrent live connections during load tests.

E-Commerce Platform for Local Businesses

- Developed a full-stack web application using React, Node.js, and MySQL with JWT-secured REST APIs for merchant and customer portals.
- Optimized SQL queries, reducing data retrieval time by 30% and improving checkout responsiveness.
- Deployed on AWS EC2 with Nginx reverse proxy and SSL for high availability and HTTPS security.

Skills

- Soft Skills: Problem-solving, Cross-team Collaboration, Technical Mentoring, Stakeholder Communication, Requirements Translation
- Programming Languages: Python, Java, JavaScript (ES6+), TypeScript, SQL, Bash, Go
- Backend Development: Spring Boot, Node js, Express, Django/Flask, Hibernate, Microservices, RESTful APIs, GraphQL, Spring Cloud, API Gateway, Oracle SOA
- Frontend Development: React.js, Angular, HTML5, CSS3, SASS, Bootstrap
- Cloud Platforms & Infrastructure: AWS (EC2, Lambda, S3, ECS, RDS, CloudFormation, Cognito), Azure (App Services, AKS), GCP (Compute Engine, Cloud Functions)
- DevOps & Automation: Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, Bitbucket Pipelines, CI/CD, Ansible
- Testing & Monitoring: JUnit, Pytest, Postman, Selenium, JMeter, Prometheus, Grafana, CloudWatch, ELK stack
- Security: JWT, OAuth, HTTPS/TLS, IAM (AWS/Azure), AWS Cognito
- Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, SQL Server, Oracle, DB2, Snowflake
- Data Engineering & ML Ops: Apache Kafka, Spark, PostgreSQL, MongoDB, Redis, Pandas, NumPy, Airflow, MLflow, TensorFlow/Keras (for LSTM)
- Methodologies: Agile/Scrum, Kanban, Waterfall
- Tools: IntelliJ, VS Code, Jira, Confluence, Azure DevOps, GitHub, Postman

Certifications

AWS Certified Solutions Architect - Associate Validation ID: 023aa5aa8814418ea015b0a7a62e4584