

Shruthi Pillala

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Summary

Software Developer with over 4 years of experience designing and optimizing Java-based microservices and distributed systems supporting 1M+ daily transactions. Experienced in building AI-enabled backend applications using LLM APIs, and delivering measurable improvements including a 60% reduction in deployment time and improved API response latency through Dockerization, Redis caching, and event-driven architecture.

Experience

Dematic

Grand Rapids, MI

Software Engineer

July 2025 – Present

- Refactored backend logic to support modern hardware configurations, improving system reliability and reducing integration errors by 20% across multiple customer deployments.
- Developed features connecting user interfaces to centralized databases, increasing data tracking accuracy for daily storage and material movement operations by 15%.

Northwest Missouri State University

Maryville, MO

Software Engineer

August 2024 – May 2025

- Designed and deployed a Java Spring Boot full-stack application with PostgreSQL to automate academic workflows for 10K+ users, reducing manual processing by 25%.
- Implemented automated document validation and server-side sanitization using Spring Boot, reducing corrupted file uploads by 30% and improving data reliability.
- Built 10+ reusable UI components using React and Tailwind CSS and partnered with stakeholders to translate requirements into scalable features, improving delivery speed and workflow efficiency by 20%.

Tata Consultancy Services Ltd

Hyderabad, India

Software Engineer

August 2021 – December 2023

- Designed and maintained Java Spring Boot microservices using an event-driven architecture, processing 1.2M+ transactions/day with 99.9% production availability.
- Built high-throughput data integration services using multi-threaded Java processing, improving reporting data ingestion speed by 50% through parallel execution.
- Optimized backend APIs and deployments by implementing Redis caching, tuning PostgreSQL/MongoDB queries, and migrating to Dockerized microservices, reducing latency by 35% and deployment time by 60%.

Projects

DevMentor AI | SaaS Career Assistant | Spring Boot, React, AWS, PostgreSQL, Stripe

[Live Link](#)

- Developed a Spring Boot SaaS platform utilizing OpenAI API to automate resume reviews for 500+ users.
- Implemented secure authentication and payment workflows using JWT and Stripe APIs, achieving a 15% conversion rate for premium tiers.

AI Quote Generator | Java, Spring Boot, Spring AI, AWS Lambda, S3

[Live Link](#)

- Built a serverless GenAI application using Spring AI and AWS Lambda, supporting 1,000+ concurrent LLM inference requests.
- Reduced average response latency by 30% using asynchronous execution and AWS S3 for optimized AI output delivery.

Incident Management System | Java, Spring Boot, PostgreSQL, React

- Developed RESTful microservices using Spring Boot to manage system incidents for 100+ concurrent users.
- Reduced query response times by 40% via B-tree indexing and query optimization in PostgreSQL.

Technical Skills

Programming Languages: Java, JavaScript, Python

Frameworks: Spring Boot, Spring, Hibernate, Spring AI

Databases: PostgreSQL, MySQL, Redis

DevOps: Docker, Kubernetes, Jenkins, GitHub Actions

Cloud: AWS (ECS, Lambda, CloudFormation)

Other Skills: Microservices, REST APIs, System Design, Event-Driven Architecture, Prompt Engineering, LLM API Integration

Achievements

- Oracle Certified Professional – MySQL 8.0 Developer
- Awards: Special Achievement, Best Volunteer

Education

Northwest Missouri State University

Maryville, MO

Master of Science in Information Systems

January 2024 – May 2025

Jawaharlal Nehru Technological University

Hyderabad, Telangana

Bachelor of Technology in Electrical & Electronics Engineering

July 2017 – August 2021