

# Harsha Venkat K

Software Engineer | Hoboken, NJ | [harshavenkat4@gmail.com](mailto:harshavenkat4@gmail.com) | [portfolio](#)

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## SUMMARY

Backend & Full-Stack Software Engineer (~2 yrs) specializing in Java/Spring Boot microservices, RESTful API design, and React UIs. Ship iteratively in Agile/Scrum, add observability early, and leverage AI-assisted development for speed and quality. Seeking backend/full-stack role on AI-native teams.

## SKILLS

**Languages:** Java, Python, C, JavaScript/TypeScript, C++, SQL

**Backend:** Spring Boot, Spring MVC, Hibernate/JPA, Node.js/Express, RESTful APIs, Microservices, Pagination, Validation, Idempotency, Circuit Breaker/Retry

**Frontend:** React, HTML5, CSS3, Responsive UI, Accessibility basics

**Databases:** PostgreSQL, MySQL, Oracle, MongoDB, Firebase

**Cloud & Devops:** AWS (Lambda, EC2, S3, CloudWatch), GCP, Microsoft Azure, Docker, Kubernetes, Jenkins, Maven, Gradle, Jira, Git, CI/CD Pipelines

**Testing/Quality:** JUnit, Mockito, Integration tests, Profiling, Dashboards/Alerting

**Methods:** Agile/Scrum, Git, Jira, RFCs/design notes, Feature flags

**AI Awareness:** Copilot, prompt templates, basic RAG/guardrails

## WORK EXPERIENCE

### Software Developer Intern | Platform 3 Solutions

Jul 2025 - Present

- Build Java **Spring Boot** services that orchestrate **LLM** inference (prompt templates, routing, retries, guardrails); expose **REST APIs** for job submission and status.
- Implement **idempotent** requests, async queues for long-running tasks, strict I/O validation; add **CloudWatch** metrics, structured logs, and **CI integration tests**.
- Light **React** admin console for job dashboards and config; authored runbooks and **Postman** collections..

### Software Engineer Intern | Reality AI Lab

Jan 2025 - May 2025

- Built real-time data pipeline with **DynamoDB + Redis** and back-pressure; sustained sub-**100ms** P50 latency.
- Automated health checks and deployments via **GitHub Actions + CloudWatch**, reducing MTTR ~30%.
- Collaborated in **Agile** sprints and code reviews; wrote integration checks to prevent regressions.

### Software Engineer Intern | Outlier AI

May 2024 - Aug 2024

- Improved prompt-driven **code generation** workflows for Java modules/tests; reduced generation errors ~15%.
- Contributed to backend CI automation and SLA performance checks; tuned pipelines for stability.
- Worked with **REST** integrations, **Git/Jira**, and test scaffolding to speed up iteration.

### Software Developer | Skillo

Oct 2022 - Aug 2023

- Maintained **Java/Spring Boot** microservices for 10K+ users; +30% API throughput via query/index tuning.
- Introduced async processing and **circuit breaker** patterns; reduced prod issues ~20%.
- Instrumented monitoring/alerts and strengthened **CI/CD** to improve release quality.

### Project Engineer Intern | Wipro

Mar 2022 - Sep 2022

- Built modular Spring Boot services for e-commerce (orders, inventory, payments); +25% perf with caching/Hibernate tuning.
- Authored API docs and **Postman** collections; adhered to **REST** standards and versioning.
- Participated in **Scrum** ceremonies and peer code reviews.

## PROJECTS

### What2wear App – Capstone Project

Sep 2024 - Dec 2024

- **Stack:** Java backend, React frontend, Firebase (Auth/Firestore/Storage); deployed on AWS (S3/CloudFront) with CI via GitHub Actions.
- **APIs & AI:** Designed REST endpoints (closet CRUD, recommendations, weather ingest) with pagination/validation and consistent error contracts; added prompt-templated ranking + guardrails for outfit suggestions.
- **Impact:** ~20% faster median responses (payload trims, client caching, debounce); added loading/error states, keyboard-navigable UI, and JUnit/RTL tests.

## CERTIFICATIONS & LICENCES

- AWS Certified Developer - [Associate](#)
- Oracle Certified Foundations Associate, Java

## EDUCATION

### Master of Science in Software Engineering

Sep 2023 - May 2025

Stevens Institute Of Technology, Hoboken, NJ