RANJITH KUMAR U

Senior Software Engineer

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SUMMARY

Senior Software Engineer with **5 years of experience building, scaling, and owning full-stack systems end-to-end** for an American e-commerce platform serving **a million customers**. My work lives where **architecture meets production reality** — distributed data design, performance engineering, and event-driven microservices that stay fast under peak load. Alongside core platform engineering, I build **autonomous AI agents and workflows** that run in production.

EXPERIENCE

Senior Software Engineer

Purchasing Power LLC

03/2024 – Present ⚲ Chennai, India

- **Architected** the re-engineering of distributed customer segmentation (Java/Spring, SAP Commerce Cloud) under peak enterprise load: moved active segments to in-session persistence with temporal indexes, reducing database queries by **76% (105M → 25M)** and eliminating API pod degradation and JVM GC-induced downtime.
- **Re-architected** the data-access layers of the Wishlist and Saved-for-Later engines onto Apache Solr indexes, resolving database contention and reducing cloud compute cost.
- **Engineered** the enterprise migration to Angular 21 Server-Side Rendering on Azure Web Apps with progressive hydration and Deferrable Views: **TTI 3.5 s → 0.8 s**, JS bundle **−52.4% (15.9 → 7.5 MB)**, Lighthouse **+70%**.
- **Architected** an enterprise Ratings & Reviews engine and a Saved-for-Later intent-tracking framework; decomposed core Cart workflows into decoupled microservices via Azure Service Bus — contributing to a **25% increase in customer demand**.
- **Drove** engineering quality across 15+ major enhancements, cutting defect density by **78.5% (3.78 → 0.81 defects/story)** as technical reference for a team of 6 engineers.

Software Engineer

Purchasing Power LLC

07/2021 – 02/2024 ⚲ Chennai, India

- **Engineered** the migration of a legacy JSP/Spring MVC monolith to a decoupled Angular-based SAP Composable Storefront (Spartacus), decomposing monolithic controllers into scalable RESTful APIs.
- **Implemented** full-stack solutions across core storefront modules, including a localized product recommendation engine and marketing conversion-tracking pipelines.
- **Secured** and integrated Stripe-based payment services into the checkout flow, ensuring transactional integrity and PCI-conscious handling of payment data.

FEATURED PROJECTS

Snyker: Vulnerability Remediation AI Agent

01/2026 – 03/2026 Java · Agentic AI · LangChain · Snyk API

- **Developed** an autonomous AI agent that continuously scans legacy codebases via the Snyk API and remediates security vulnerabilities: a deterministic logic engine applies patches, resolves nested peer-dependency conflicts, and generates merge-ready pull requests.

Prioritized Messaging Middleware with DLQ

08/2024 – 01/2025 Spring Boot · Microservices · Azure Service Bus

- **Engineered** decoupled Spring Boot microservices with a read-optimized cache and an asynchronous table-update writer over Azure Service Bus; enforced strict transaction SLAs across three prioritized queues (High, Low, Session) with a Dead-Letter Queue topology.

EDUCATION

B.Tech in Computer Science and Engineering

Lovely Professional University

08/2017 – 05/2021 ⚲ Jalandhar, India

SKILLS

Programming

Java · TypeScript · JavaScript · Go (Golang) · SQL

Backend

Spring Boot · Microservices · SAP Commerce Cloud (Hybris) · Kafka · Azure Service Bus

Frontend

Angular · SAP Composable Storefront (Spartacus)

Databases & Search

Oracle SQL · PostgreSQL · MongoDB · DynamoDB · Solr

Cloud & DevOps

Microsoft Azure · AWS · Docker · Kubernetes · Maven · Nginx · Apigee · Git

Observability

Prometheus · Grafana · Datadog · AppDynamics

AI / Agentic Systems

LangChain · LangGraph · Agentic AI · RAG

AWARDS

Best Employee of the Year 2022

"Ownership" — POWER Awards, Purchasing Power LLC

Spot Awards

Q1 2022 · Q4 2025 — Purchasing Power LLC

Star Awards

Q3 2022 · Q4 2023 · Q4 2025 — Purchasing Power LLC