

Surabhi Kumari

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WORK EXPERIENCE

Senior Software Engineer, Intuit

Jan 2024 – Mar 2026 | Bengaluru, India

- **Inventory Cost Accounting (ICA) Modernization:** Led end-to-end design and implementation of modernized Inventory accounting systems, optimizing database schemas and algorithms to outperform legacy monolith systems.
- **Global Readiness & Scale:** Spearheaded ICA Globalization efforts, including DB sharding and DB cluster provisioning, ensuring seamless management of increased traffic.
- **Automation Testing & Quality Engineering:** Spearheaded comprehensive test automation strategy, driving the development and onboarding of 64+ end to end automated tests on the Neodyme framework to continuously monitor system health and ensure product reliability.
- **AI-Driven development & Innovation:** Engineered AI agents to deliver profit projection visualizations, enabling customers to forecast profitability with data-driven insights. Proficient in utilizing advanced AI tools (Cursor, Gemini) to accelerate development and testing tasks, enhancing productivity and delivery velocity.

Software Engineer-2, Intuit

Jul 2022 – Jan 2024 | Bengaluru, India

- **Critical Monolith-to-Modernized Data Migration:** Orchestrated the seamless migration of ~2,000 companies from legacy monolith to modernized architecture, ensuring zero customer impact while maintaining system limitations and architectural integrity. Resolved data consistency and precision issues to guarantee smooth transition and prevent production disruptions.
- **OpEx Dashboard Initiative:** Designed and developed "QB-Commerce OpEx Tracker" from ground up using React, Java, and AWS Athena, consolidating critical business metrics into a single unified dashboard. Eliminated the need for leadership to navigate multiple systems, enabling data-driven decision-making through real-time operational insights.
- **Full-Stack Development & Partner Integration:** Built an integrated SQL Editor within the Inventory Admin Tool (React, Kotlin), enabling team-wide database queries without credential generation and accelerating issue resolution.

Associate Software Engineer, J P Morgan Chase & Co.

Jul 2016 – Jul 2022 | Bengaluru, India

- **Loan Review System (LRS):** Developed LRS from the ground up, owning architecture design and E2E test suites; migration efforts saved **\$133k per annum**.
- **Performance Optimization:** Upgraded legacy batch-processing using Spring Batch, reducing execution time from 4 hours to 30 minutes.
- **Monolith Decomposition:** Orchestrated the decomposition of monolith applications into microservices and set up cloud services on private infrastructure.
- **Process Automation:** Automated financial workflows and UI customization, resulting in a **75% reduction** in production support tickets.

SKILLS

Languages — Java, Kotlin, Node.js, TypeScript, SQL, Python | **Databases** — PostgreSQL, MySQL, AWS Athena, OracleSQL, DynamoDB, MongoDB | **Backend & Frameworks** — Hibernate, JPA, Spring Boot, RESTful APIs, GraphQL, Angular, React, NextJs | **Cloud & Tools** — AWS, Kafka, Neodyme Framework | **GenAI & Tools** — Gemini, Claude, Cursor, Codex, Kiro, Antigravity | **System Design & Architecture** | **Microservices** | **Test Automation**

PROJECTS

Slate Dashboard

Task manager built with **Next.js** that features real-time sync, intuitive drag-and-drop boards, and secure **Google authentication**.

- Developed a full-stack Next.js dashboard with Google OAuth integration, managed via **Spec-Driven Development**.
- Utilized the **Kiro IDE** to implement a structured SDD lifecycle transforming natural language requirements into version-controlled technical specs and automated task execution.
- Leveraged AI-driven **Agent Hooks** to automate unit testing and component scaffolding, ensuring 100% alignment between design specs and implementation.

Intuitive Recruit (ML)

- Recommendation system for recruiters(**Resume shortlisting**) as well as Job seekers(**Identifying job opportunities**) utilizing supervised and un-supervised machine learning algorithms to provide recommendation as part of JP Morgan Global hackathon (**JAVA Spring boot, ACTIVITI tool for Business Process Modelling, Python**).
- Allows Recruiters/Hiring managers to track the real-time on-boarding status of the applicant once the applicant is selected for the hiring process using concept of **ACTIVITI** workflow engine.
- Developed a module for calculating similarity/match percentage of a CV with the laid job descriptions and vice-versa using Machine learning concept (**TF-IDF cosine similarity**).

EDUCATION

B.E., M S Ramaiah Institute of Technology

Sep 2012 – Jun 2016 | Bangalore, India

AWARDS

Recognition for making a difference,

Jan 2021

Commercial Banking, J P Morgan Chase

Completion of decommission of monolith application deployed using legacy hardware systems which ultimately result in saving of \$133k

PUBLICATIONS

Paper presentation in ICACIE 2016, Springer Publication

Jan 2017

Published a paper on big data mining in **Springer Publication** and presented at **CV Raman institute of technology, Bhubaneswar**