

Vinita Jain

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SUMMARY

Software Engineer with 5 years of experience designing scalable distributed systems and building user-facing products in fast-paced environments. Proven ability to debug complex user workflows, turn ambiguous business requirements into reliable technical solutions, and work autonomously with high ownership. Strong collaborator who effectively partners with PMs and cross-functional teams to deliver high-impact engineering solutions.

EDUCATION

University of Utah, Salt Lake City, UT | MS Information Systems | Outstanding Grad Honor | GPA: 3.95/4

Jan 2024 - Dec 2024

University of Pune, India | Bachelor of Engineering in Computer Science | GPA: 3.73

June 2015 - May 2019

PROFESSIONAL EXPERIENCE

C3.ai | Software Engineer | *California, USA*

Jan 2025 - April 2026

- **Owned end-to-end delivery** of an enterprise-scale Demand Forecasting & Inventory Optimization platform for Nucor, replacing manual Excel workflows with an AI-driven system; drove ~\$300K annual savings, 3% service level improvement, and \$7.1M incremental revenue, contributing to a \$26M contract expansion.
- **Built and maintained backend distributed services and data pipelines** for high-volume data processing using Python, JavaScript, React, PostgreSQL, and Cassandra; integrated data from S3 and Databricks with automated validation, monitoring (OpenSearch, Grafana), and alerting; Wrote comprehensive test cases in pytest to ensure code reliability.
- **Integrated ML optimization models** into custom frontend interfaces with on-demand refresh, enabling real-time inventory optimization for end users.
- Developed Python MCP server using **FastMCP** for read-only Databricks query exploration, enabling fast data validation and inventory/sales order data analysis.
- **Designed and optimized** PostgreSQL database schemas for high-volume inventory and sales orders data; implemented index strategies and analyzed query execution plans to improve data pipeline performance.
- **Debugged complex, real-world user workflows** spanning distributed systems, data pipelines, and ML model outputs; resolved production issues affecting enterprise deployments on Kubernetes.
- **Collaborated cross-functionally with PMs and customer teams** to translate business requirements into technical solutions; conducted weekly engineering office hours to accelerate knowledge sharing and unblock teams.
- Proactively integrated platform updates with live client data and provided feedback leading to 12+ platform improvements.
- **Enhanced internal developer tools** (C3Prompts) using C3 MCP, Cursor, and LLMs to automate solution engineering tasks and accelerate application development workflows.
- Contributed to deployment of similar forecasting solutions for Georgia-Pacific, enabling ~\$20M inventory reduction and \$6.6M annual capital savings.

University of Utah | Software Engineer Intern | *Utah, USA*

Mar 2024 - Nov 2024

- **Architected RESTful backend APIs** using **Spring Boot 3** with Spring Security for role-based authorization; designed scalable, maintainable systems with strong software engineering fundamentals.
- **Built full stack Repay loan application frontend** using **Angular 17** with SSO authentication, RxJS async handling, and Angular Query caching, reducing load times by 45%.

Flipkart | Software Engineer | *Bangalore, India*

Oct 2021 - Sept 2023

- **Developed complex UI components** for Flipkart's cross-platform e-commerce app using **React, React Native, TypeScript and Redux**, boosting monthly active customers by 20%; Formulated unit and integration test cases in **Jest**
- **Built 20+ A/B testable features** using mobile-first approach; shipped incremental improvements to production across Android, iOS, and web platforms, achieving 50% success rate and 5-6% increase in Gross Merchandise Value (GMV).
- **Debugged real-world user workflows** across mobile and web platforms that didn't fit neatly into isolated components; resolved performance bottlenecks and integration issues affecting millions of users.
- **Collaborated closely with PMs and designers** to translate user needs into technical solutions; proposed high-ROI ideas to drive user acquisition with minimal investment.
- Mentored 3 junior developers, improving team productivity and upholding coding standards.

eQ Technologic | Software Engineer | *Pune, India*

July 2019 - Oct 2021

- **Collaborated with agile team** to develop eQube-AG, an API gateway for migration solution lifecycle management; built scalable, reusable UI components using **JavaScript and BackboneJS**.
- **Designed and shipped purge functionality** for the gateway; enhanced UI with metrics visualization using Highcharts; feature praised as benchmark for future designs.
- Contributed to the development of eQube-Designer, a low-code integration platform using BackboneJS, jQuery, Kendo, Spring, and SQL.

SKILLS

Programming: Python, Java, JavaScript, TypeScript, React, SQL, NoSQL, Flask, Jest, Pytest, HTML, CSS, TailwindCSS

Technologies/Frameworks: Git, Docker, Kubernetes, AWS, CI/CD, Grafana, Data structures & Algorithms, Distributed Systems, API development, Microservices, Object Oriented Design Patterns and Principles, Event-Driven Architecture

Data Storage: Postgres, Cassandra, OpenSearch, Database Schema Design, Relational and Non-Relational Databases, Query optimization

AI/ML: FastMCP, Claude, GPT, RAG, Langchain

CERTIFICATIONS

[AWS Certified Developer - Associate](#)

Aug 2024 - Aug 2027