

Aditya Rao

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EDUCATION

San Jose State University

Master of Science in Computer Software Engineering

San Jose, CA, USA

August 2024 - May 2026

SIT, Visvesvaraya Technological University (VTU)

Bachelor of Engineering in Computer Science & Engineering

India

August 2016 - August 2020

SKILLS SUMMARY

Languages: Java, Python, C/C++, JavaScript, Kotlin, NodeJS, SQL, HTML, CSS, Shell Scripting, Bash, NoSQL, RDBMS
Frameworks/Libraries: Spring-Boot, JDBC, React, Express.js, Web3.js, Flask, Django, FastAPI, OpenMP, gRPC
Tools/ Technologies: MySQL, PostgreSQL, MongoDB, Kafka, RabbitMQ, ELK stack, Git, Rest API, Docker, Kubernetes
Miscellaneous: AWS, EC2, S3, RDS, Redis, Firebase, Neo4j, Jenkins, Selenium, Postman, Instana

PROFESSIONAL WORK EXPERIENCE

Software Engineer Intern, *SnapOn* - San Jose, USA

May 2025 - August 2025

- Enhanced an in-house UI automation framework in C++ to support business-critical workflows, improving reliability and test coverage for key operations.
- Engineered a browser-based Excel validation engine with regex parsing, market-aware matching, and color-coded HTML reporting—automating multi-sheet year-range audits and cutting review time by **85%** while boosting accuracy **10×**.
- Spearheaded migration of the legacy codebase from Vault (centralizedVCS) to Git on Bitbucket, establishing standardized branching workflows and best-practice governance.

Senior Software Engineer, *PharmEasy* - Bengaluru, India

April 2021 - July 2024

- Led development of multiple micro-services like Offers, Payments & Audience in **Java, Kotlin and JavaScript** by writing scalable and efficient APIs and **queries** in a structured and robust MVC design.
- Led the integration with **Paytm** as the payment partner for all transactional services, resulting in a reduction in failure rate by 10% and reduction in overall cost per transaction - **saved \$100k per month**.
- Spearheaded the development of a **Customer Loyalty Program**, boosting user retention and engagement through targeted rewards, ultimately driving long-term customer relationships and increasing revenue by **10%**.

Software Engineer, *PharmEasy* - Bengaluru, India

Nov 2020 - April 2021

- Migrated a high-priority **audience service** from **Python to Kotlin**, improving throughput and enabling multi-tenant use cases. Optimized architecture, reducing error rates by **9%** and API latency by **23%** across integrated services.
- Developed an **in-house RPA tool** in **Python**, replacing proprietary software and parallelizing **RDP sessions**, resulting in an annual cost saving of **\$600K**.

Tech Intern, *MiQ digital* - Bengaluru, India

Jan 2020 - November 2020

- Migrated existing **Docker** containers for running automation scripts to the **Kubernetes cluster**, enabling load balancing of services and better system monitoring thus improved overall stability of services by **20%**.
- Using **React** and **Express.js** implemented a **customer-facing dashboard** that visualized real-time ad performance metrics with interactive graphs, enabling actionable insights, leading to a **10%** increase in sales.

PROJECT EXPERIENCE

AutoNexus - UCBerkeley AI Hackathon | *Python, MCP-Agent, Claude LLM, MySQL, Neo4j, React*

2025

- An interactive system for optimizing global supply-chain management through multi-agent planning, python backend and web application to visualize decision trees, adjust cost/eco-impact/stability priorities for a curated business plan.

File parsing in distributed systems using parallel processing | *C++, Python, OpenMp, gRPC*

2024

- Built an **in-memory file processing** and **search functionality** by implementing multi-threading and multi-processing techniques like parallel chunking, array of objects and grpc to improve the API performance by **85%**.

Feed Service - Pharmeasy | *Java, Spring-Boot, Llama2 - LLM, Spider, MySQL, Kubernetes, React*

2023

- Devised an **AI-driven** content framework that dynamically delivers personalized healthcare content, boosting cross-selling commerce application sales by **15%**, and won in a hackathon with a **\$10,000 prize**.

Just-News - SIT, Major Project | *React, Solidity, Ethereum blockchain, Machine Learning*

2020

- Developed a **decentralized** news platform on the **Ethereum blockchain** that filters fake news and rewards readers for accurate voting. Implemented a **reward-based feedback loop** to ensure accountability, earning the highest grade.

ACHIEVEMENTS/CERTIFICATIONS

- Awarded the “Best usage of Claude LLM” Track Prize by Anthropic at the UC Berkeley Hackathon 2025
- Received the quarterly award for 'Raise the bar higher, always' at PharmEasy for high impact quality work.
- Qualified for the Grand Finale of the national level Smart India Hackathon 2018 organized by Government of India.