

EDUCATION

San Jose State University
Master of Science in Computer Software Engineering

San Jose, California, US
Aug 2024 - May 2026

SIT, Visvesvaraya Technological University (VTU)
Bachelor of Engineering in Computer Science & Engineering

Bengaluru, Karnataka, INDIA
Aug 2016 - May 2020

TECHNICAL SKILLS

Languages : Java, Python, JavaScript/TypeScript, C/C++, HTML, CSS, XML, RDBMS, MySQL, NoSQL, REST, GraphQL, gRPC
Frameworks : Spring Boot, Flask, Django, Express.js, Node.js, React.js, Next.js, Angular.js, Material-UI, Web3.js, OpenMP, JDBC
Technologies : Nginx, Docker, Kubernetes, AWS, Azure, GCP, Kafka, Pandas, NumPy, OpenCV, Scikit-learn, TensorFlow, PyTorch.
Tools : Linux, Git, Jira, Terraform, Jenkins, Kibana, Selenium, Neo4j, RabbitMQ, Windows, Instana, NewRelic, Grafana
Databases : MongoDB, MySQL, PostgreSQL, Elasticsearch, DynamoDB, RDS, Redis, Firebase, Spark, Hadoop

PROFESSIONAL EXPERIENCE

SnapOn: Automobile diagnostic company | Software Engineer Intern | San Jose, CALIFORNIA

May 2025 – August 2025

- Engineered a full stack browser-based 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×**.
- Redesigned components of a C++ automation framework to support large-scale diagnostic workflows, reducing runtime overhead by **20%** and enabling parallel execution of high-volume automotive fault simulations.
- Contributed in migration of a **200K+ LOC** legacy codebase from Vault (centralized VCS) to Git on Bitbucket, designing branching strategies, automated merge pipelines, and access controls to enforce code integrity and streamline collaboration across teams.
- Developed a UI automation framework using TagUI with Python to orchestrate multiple parallel RDP sessions, enabling seamless automation of distributed workflows across remote systems.

PharmEasy: Health care company | Software Engineer and Senior Software Engineer | Bengaluru, INDIA

Nov 2020 - July 2024

- Led development of multiple microservices such as Offers, Payments & Audience in **Java, Kotlin, Python, and JavaScript**, implementing scalable and efficient APIs and queries within a robust MVC architecture using **Spring Boot, Flask, and Express.js**.
- 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%**.
- Devised an AI-driven content framework to dynamically deliver personalized healthcare content; the solution won a **\$10K** hackathon prize and was later integrated as a core feature of the e-commerce platform, boosting cross-sell sales by **15%**;
- 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.
- Built an internal service leveraging Kafka with a Java backend and React frontend that allowed teams to create standardized communication templates for microservices, extending functionality with features like **rate limiting** and **delayed callbacks**.
- Built an end-to-end system to ingest Kibana logs, (PCA/UMAP) for anomaly detection and predictive modelling, and integrated an LLM-powered chatbot for real-time root-cause analysis and proactive failure resolution.
- Developed an in-house RPA tool in Python, replacing proprietary software and parallelizing RDP sessions, resulting in an annual cost saving of **\$600K**.

MiQ: Programmatic Advertisement company | Software Engineer Intern | Bengaluru, INDIA

Jan 2020 – Nov 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.
- Developed a performance test framework using Gatling and Scala to perform load tests of APIs and identifying bottlenecks in performance of services before major software releases and updates.

ACADEMIC PROJECTS/HACKATHONS

AutoNexus – Winner Anthropic track - UC Berkeley 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.

GreenPulse – Winner Clean Code Track – LA Hacks | Python, Flask, Fetch.ai Agents, Google Gemini, Bolt, React, Redis 2025

- A Python Flask platform with Fetch.ai agents for carbon emission tracking, integrating autonomous aggregation/monitoring and an LLM chatbot (Gemini + Bolt) for real-time reduction suggestions; frontend built with **React** for gamified dashboards and incentives.

File parsing in distributed systems using parallel processing | C++, Python, OpenMp, gRPC, Protobuf, NumPy, CMake 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 relative API performance by **85%**.

Costrive: Buildspace - Nights & Weekends S5 | Kotlin, React, MySQL, Docker, Spring Boot, Web Sockets, Redux, OAuth2.0 2024

- A social media platform for founders with messaging, posts, event scheduling, and notifications, empowering them to network, collaborate, and grow through scheduled events.

JustInformit – Runners Up - Global Hackathon, HackIQ | Kotlin, MySQL, Natural Language Processing, Chatbot integration 2023

- Created a smart app for reporting crimes and emergencies, integrating an NLP chatbot to improve response times by categorizing contacts based on location, addressing inefficiencies in India's public safety systems.

Just-News - SIT, Major Project | React, Solidity, Ethereum blockchain, Machine Learning, Metamask, GanacheCLI, Remix IDE 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

- Awarded 'Best usage of Claude LLM' Track Prize by Anthropic at the UC Berkeley Hackathon 2025.
- Won the 'Clean Code' track at the LA Hacks 2025 for building Green Pulse, an AI powered carbon emission monitoring/tracking platform.
- Received the annual 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.