

# Neha Sawant

Santa Clara, CA | [in linkedin.com/in/nehasawant4/](https://www.linkedin.com/in/nehasawant4/) | [408-640-4982](tel:408-640-4982) | [Portfolio](#) | [nsawant@scu.edu](mailto:nsawant@scu.edu) | [GitHub](#)

## Skills

- Java | Python | C++ | C | JavaScript | React | Node | HTML | CSS | Flutter | Dart | Shell | Perl | MySQL | NoSQL
- OOP | REST | Postman | Amazon Web Services | Apache CloudStack | CI/CD | Jenkins | Docker | Kubernetes | Linux | Git
- Gen AI | LLM | Microservices | Distributed Systems | Frontend | Backend | Full-Stack | Agile | Jira | ClearCase

## Education

**Master of Science** Santa Clara University, US **09/2023 - 03/2025**

- Major in Computer Science and Engineering | GPA: 3.89
- Coursework: Distributed Systems, Machine Learning, Operating Systems, Computer Architecture, Software Engineering

**Bachelor of Engineering** Pune University, India **08/2016 - 08/2020**

- Major in Information Technology | GPA: 3.66
- Coursework: Cloud Computing, Data Structures, Object Oriented Programming, Computer Networks

## Experience

**Mobile App Developer** SCU Frugal Innovation Hub, US **12/2023 - 06/2024**

- Steered the end-to-end development of a bilingual math app assisting Hispanic children overcome language barriers.
- Led a team of 4, conducted requirement analysis, designed **Figma** prototypes, and developed the app using **Flutter SDK**, **Dart** for **Android** and **iOS**, ensuring seamless cross-platform compatibility.
- Added features like quizzes, games, flashcards, AI chatbot, translator for supporting bilingual needs and interactive learning.
- Planned tasks, estimated efforts, and assigned responsibilities to team members, ensuring efficient workflow and timely delivery.

**Software Engineer** Siemens, India **03/2023 - 07/2023**

- Designed and developed automation scripts in **Perl** based on functional test specification documents for testing wayside and onboard equipment of Communications Based Train Control System (CBTC).
- Conducted root cause analysis of issues in the SPA simulator, ensuring prompt resolution and system reliability.
- Performed code reviews on Collaborator and conducted code coverage analysis on Ada source code using GNAT.
- Documented test reports, traceability matrices and release notes.

**Senior Software Engineer** Persistent Systems, India **11/2020 - 01/2023**

- Engineered **Python** scripts for integration and functional testing of Rovius Cloud Platform powered by **Apache CloudStack**.
- Designed test strategies achieving 100% test coverage for **virtualization**, networking, storage, hypervisors, etc.
- Developed **Shell** scripts for automating the **IaaS** management server installation and configuration, reducing manual efforts by 85%.
- Enhanced automation framework on **Jenkins** and fixed test scripts on **GitLab** decreasing 90% test failures due to framework issues.
- Led regular Build Verification Tests and Regression tests, troubleshooting critical issues, which reduced post-release defects.
- Deployed **Docker** containers on **Linux** VMs and exhaustively tested **Kubernetes cluster** deployment in CloudStack.
- Designed and developed scripts for bulk operations on CloudStack. Executed performance tests discovering 96% faster API response time and improved CPU and memory usage.
- Assisted **DevOps** team in migration of **CI/CD** infrastructure to new servers, including network reconfiguration and script enhancements.
- Mentored Junior Engineers on cloud infrastructure concepts, automation, KVM virtualization, and Kubernetes.

## Projects

- **ATS**: Developed a generative AI Applicant Tracking System for resume analysis and rating, by fine-tuning LLM from Hugging Face, and prompt engineering. (Python, Streamlit, LLM) **(05/2024)**
- **Traffic Sign Recognition**: Built CNN models using Sequential and VGG19 architectures, achieving 98% accuracy in classifying traffic signs using both approaches. (TensorFlow, Keras, OpenCV) **(03/2024)**
- **Blogging App**: A responsive full-stack blogging platform with Google Oauth integration for secure login, CRUD operations, rich text-editor. Integrated a generative AI powered blog generator using Meta's Llama2. (React, Next, MongoDB) **(12/2023)**
- **PPE Detection System**: Developed a scalable and reusable web application for real-time detection of Personal Protective Equipment. (Core Java, Spring Boot, Maven, AWS EC2, S3, DynamoDB, Rekognition) **(10/2020)**

## Leadership and Awards

- **Graduate Teaching Assistant**: Santa Clara University, USA
- **Top Talent 2022**: Awarded for exceptional performance and impactful contribution to Rovius Cloud Platform. Promoted to Senior Software Engineer at Persistent Systems.