

# NEHA SAWANT

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## SUMMARY

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Software Engineer with 3 years of experience in software development, automation, cloud computing, and computer networking. Pursuing a Master's in Computer Science from Santa Clara University and seeking full-time roles.

## EXPERIENCE

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### Software Engineer Intern | F5 Inc, CA

July 2024 - Sept 2024

- Built an AI-powered chatbot for F5's Central Manager using a **custom RAG architecture** enabling AI Ops, automated workflows, document validation, and developer assistance.
- Delivered a **React/Typescript** UI backed by **FastAPI**, **Azure OpenAI**, and **Postgres vector store** for the RAG pipeline.
- Developed a proof of concept for to enhance **BIG-IP SSL Orchestrator** forward proxy by implementing **JA4+ TLS fingerprinting** using **TCL iRules** in the outbound gateway.
- Validated bugs in SSL Orchestrator using the automation pipeline on **AWS** and **GitLab**, along with log analysis and manual testing using **REST client**, **Kubernetes**, and **Wireshark**.

### Software Engineer | Siemens, India

Mar 2023 - July 2023

- Architected **Perl automation scripts** based on Functional Test Specification Documents to test wayside and onboard equipment of the Communications Based Train Control (CBTC) System.
- Executed and debugged tests within the SPA simulator on **Unix**. Reported critical bugs in the simulator through detailed log analysis and troubleshooting.

### Senior Software Engineer | Persistent Systems, India

Nov 2020 - Jan 2023

- Engineered **Python scripts** for automation testing of Rovius Cloud Platform powered by **Apache CloudStack**.
- Automated the IaaS server installation and configuration using **Shell scripts**, reducing manual effort by 95%.
- Enhanced **Jenkins**-based automation framework and resolved issues in component/integration test pipelines, reducing framework-related test failures to under 2%.
- Collaborated with the **DevOps** team to configure **CI/CD** infrastructure on new servers and fix pipeline issues.
- Designed and executed comprehensive test strategies for **cloud infrastructure** features - virtual machines, networks, storage, hypervisors (VMware, KVM, XenServer), load balancers, and Kubernetes clusters.

## PROJECTS

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### GitFluence | [Demo](#) | React, FastAPI, LangChain, OpenAI, Pinecone

- Developed a Retrieval-Augmented Generation (RAG) assistant that turns Confluence and GitHub content into a queryable knowledge base, streamlining developer support and keeping docs in sync with code.

### SEO Booster | [Demo](#) | JavaScript, TailwindCSS, OpenAI, Adobe Express SDK

- Hackathon winner** add-on for Adobe Express that enhances content discoverability with real-time AI-powered SEO suggestions, recognized with two hackathon awards and a \$3,500 grant from Adobe Fund for Design.

### Norma | [Demo](#) | React, TypeScript, Flask, Pinecone, FAISS

- Built an AI-powered regulation compliance assistant with RAG that compares SOPs, policies against regulatory documents, identifies compliance gaps, suggests fixes, and enables real-time Q&A through an interactive chatbot.

### Bilingual Math App | [Demo](#) | Flutter, Dart

- Steered the end-to-end development of a bilingual math app for children, featuring games, quizzes, flashcards, and translation to support interactive learning and language accessibility.

## EDUCATION

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### Master of Science in Computer Science | Santa Clara University, CA (GPA 3.82)

Sept 2023 - June 2025

### Bachelor of Engineering in Information Technology | Pune University, India (GPA 3.66)

Aug 2016 - May 2020

## SKILLS

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- Languages:** Java, Python, C++, JavaScript, Typescript, HTML, CSS, Shell, Perl, SQL
- Frameworks:** React, NextJS, Node, Flutter, Flask, Maven, Spring
- Cloud & DevOps:** AWS, CloudStack, Docker, Kubernetes, Jenkins