NEHA SAWANT

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EDUCATION

Santa Clara University — Santa Clara, CA — Sept 2023 - May 2025
Master of Science in Computer Science and Engineering — GPA: 3.85
Coursework: Distributed Systems, Machine Learning, Operating Systems, Computer Architecture, Software Engineering

Savitribai Phule Pune University — Pune, India — Aug 2016 - May 2020
Bachelor of Engineering in Information Technology — GPA: 3.66
Coursework: Cloud Computing, Data Science & Big Data Analytics, Object-Oriented Programming, Database Management

PROFESSIONAL EXPERIENCE

Siemens Technology — **Software Engineer** — Mar 2023 - Jul 2023
- Part of a 12-member Test Automation team for Communications Based Train Control System (CBTC) by Siemens Mobility.
- Developed over **20 Perl automation scripts** for comprehensively testing wayside and onboard equipment of CBTC System.
- Conducted coverage **analysis maintaining over 80% code coverage**, documented traceability matrix and release notes.

Persistent Systems — **Senior Cloud Engineer** — Jul 2022 - Jan 2023
- Part of a 5-member cross-functional QA team for testing Rovius Cloud Platform (RCP) powered by Apache CloudStack.
- Created **Docker containers** and exhaustively tested cloud deployment in **Kubernetes clusters**.
- Executed performance testing and discovered a **90% increase in API response time** after modifications in database and APIs.
- Maintained and improved **automation testing** framework on **Jenkins** decreasing 40% test failures due to framework issues.
- Collaborated with **DevOps** team to add RCP support on Ubuntu and led the operation of enhancing the **CI/CD pipeline**.

Persistent Systems — **Cloud Engineer** — Nov 2020 - Jun 2022
- Engineered integration tests in Python and server installation scripts in Shell **reducing manual efforts by 75%.**
- Performed exhaustive testing of RCP Cloud Infrastructure with **KVM, VMware, and Citrix XenServer** hypervisors.
- Responsible for regular **BVT and Regression** tests, debugging issues, leading to a 15% reduction in post-release defects.

PROJECTS

ATS Using Google Gemini Pro — Python, Streamlit, Google AI — Apr 2024 - Apr 2024
- A **Generative AI** Applicant Tracking System powered by Google Gemini Pro Vision designed to assist the recruiters with resume screening while empowering job seekers to optimize their resumes.

Blog Generator using LLAMA2 — Python, Streamlit, LLM — Apr 2024 - Apr 2024
- Developed a custom blog generator by fine-tuning a LLM model from Hugging Face powered by Meta's LLAMA2.

Image Classification Using CNN — Python, TensorFlow, OpenCV — Mar 2024 - Mar 2024
- Developed and trained a CNN-based multi-class image classification **Deep Learning** model using TensorFlow and OpenCV.

Bilingual Math App — Flutter, Dart, Firebase, Figma — Jan 2024 - Mar 2024
- An **iOS/Android** app assisting Hispanic children overcome language barriers and learn mathematics, creating a social impact.

Blogging App — ReactJS, Next, MongoDB, Prisma ORM — Oct 2023 - Dec 2023
- A **full-stack website** with interactive UI/UX devised to enable users to publish and read wide range of content as blogs.
- The app features a rich text editor, community engagement, content discoverability, Google OAuth for Google Sign-In, etc.

PPE Detection System — Java, **Spring Boot, AWS, JavaScript, SCSS** — Sept 2020 - Dec 2020
- Developed a scalable and reusable **web application** for detecting Personal Protective Equipment in images and real-time monitoring of PPE compliance on custom building premises. Used Amazon Rekognition, S3, RDBMS, DynamoDB.

Rumor Detection System for Twitter — Python, Flask, EJS, CSS — June 2019 - May 2020
- A **Machine Learning** based rumor detection system for Twitter, focusing on early detection and verification of rumors.

TECHNICAL SKILLS

Programming Languages : Java | Python | C++ | JavaScript | HTML | CSS | Shell | Perl
Frameworks : React | Node.js | Flutter | Flask | Spring | REST API
Databases & Cloud : MySQL | Oracle | MongoDB | Prisma ORM | AWS | CloudStack | Linux | Unix
Tools : Git | Docker | Kubernetes | Jenkins | JIRA | Tableau