

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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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 within RCP simulator hosting more than 30,000 VMs 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.		
Persistent Systems	Cloud Engineer	Nov 2020 - Jun 2022
<ul style="list-style-type: none">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 and compatibility testing with RHEL/CentOS 6-8, Ubuntu, Debian, etc.Responsible for regular BVT and Regression tests, debugged 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.		
Image Classification Using CNN	Python, TensorFlow, OpenCV	Mar 2024 - Mar 2024
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Designed and built an iOS/Android application for Frugal Innovation Hub at SCU.The app impacts socially by assisting Hispanic children overcome language barriers and learn mathematics interactively.		
Blogging App	ReactJS, Next, MongoDB, Prisma ORM	Oct 2023 - Dec 2023
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">A Machine Learning based rumor detection system for Twitter, focusing on early detection and verification of rumors.Utilized Content, Network, and Pragmatic features for model training, achieving high accuracy in classification of tweets.		

TECHNICAL SKILLS

Programming Languages	: Java Python C++ JavaScript HTML CSS Shell Perl XML
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