

SIVA SWAROOP VARDHINEEDI

📍 San Jose, CA 📞 408-483-7703 ✉ sivaswaroop.vardhineedi@sjsu.edu [in linkedin](#) [🌐 portfolio](#)

Education

San Jose State University

Masters of Science in Computer Software Engineering

Aug. 2023 – May 2025

San Jose, CA

National Institute of Technology, Karnataka

Bachelor of Technology in Computer Science

Jul. 2016 – May 2020

Karnataka, India

Technical Skills

Tech Stack: Python, Java, Go, Bash, C, C++, JavaScript, TypeScript, HTML, CSS, React, Node.js

Cloud & Databases: Amazon Web Services (AWS), Microsoft Azure, SQL, MySQL, PostgreSQL, Redis, Kafka

Automation & Version Control: Terraform, CloudFormation, CI/CD, Ansible, Jenkins, Git, GitHub, Jira

Distributed Development tools: Docker, Kubernetes, Microservices, Prometheus, Grafana, Datadog, ELK, PagerDuty

Technologies: Nginx, Flask, Django, Selenium, Scrum, DevOps, Cloud Computing, Tableau, Linux, Distributed Systems

Experience

Oracle

Feb 2022 – Jul 2023

Senior Software Engineer

Hyderabad, India

- Decreased dependency on Oracle products by 50% after introducing a new **asynchronous event streaming service** using Kafka and achieved a 30% reduction in system crashes and reduced average response time from 500 ms to 100 ms.
- Implemented two key authentication and authorization mechanisms: integrated both Certificate (1) and JWT Authentication (2).
- Devised **OAUTH 2.0** authorization, empowering over 10,000 users to grant permissions to the product and incorporated Identity verification through interoperability with other products using **Oracle Cloud Services**.
- Led the UI development during three major releases amidst team understaffing, ensuring on-time delivery of 20+ features and upholding product quality.

Oracle

Sep 2020 – Feb 2022

Software Engineer

Hyderabad, India

- Crafted unique user interfaces for a new feature in Oracle's Marketing Automation product, Eloqua, utilizing **React.JS** and OJET (**Oracle JavaScript Extension Toolkit**). The development effort involved creating 15 distinct user interface components, contributing to the product's enhanced functionality.
- Formulated Java Microservices using **Helidon, SpringBoot**. Deployed and monitored orchestration of containerized counter- parts on Oracle Cloud Infrastructure (**OCI**) as part of **CI/CD pipeline**

Axis Bank

May 2019 – Jul 2019

Data Scientist Intern

Mumbai, India

- Developed predictive models using real-time business data in the Resource Productivity Management domain, leveraging **SAS analytics**. These models generated actionable insights that resulted in a 20% increase in operational efficiency. Additionally, engineered a **data pipeline** to facilitate the creation of interactive, real-time reports, enabling simultaneous access to these insights across the organization.

Projects

Fraud Detection Through Keystroke Dynamics | *Python, Arduino, Machine Learning, MYSQL*

- Enhanced system security by incorporating additional user authentication factors, including key pressure, timing parameters, location, and check-in timings. Developed a proprietary system to capture and analyze these keystroke dynamics, and seamlessly integrated it with data science modules with accuracy rate of over 95%

Diabetic Retinopathy Detection | *Python, tensorflow, React, KubeFlow | Kaggle*

- explored and implemented Vision Transformer, CapsuleNet, and various Ensemble networks on real-time OCT data sourced from local hospitals. We established a robust pipeline using kubeFlow, enabling efficient model deployment and performance monitoring. As a result, these efforts led to a significant improvement in diagnostic accuracy, achieving a 15% increase in correct predictions for OCT scans.

Peoplesoft-HR-Management | *Python, Flask, KeyCloak, React, AWS*

- Developed an HR management application using **React.js** (front-end) and Flask (back-end), deployed on **AWS** for scalability and reliability. Included security and cloud-based databases for efficient data management and automated deployment pipeline with **Ansible**

Achievements

- Secured sponsorship of approximately \$1,000 from the college to fund the filing of a patent for the fraud detection system. The patent application is currently under review.
- Won Rookie award as I was actively involved in implementing UX design for the new feature we developed at oracle and lead the UI team for the successful GA Product delivery.