

Siva Swaroop Vardhineedi

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EDUCATION

Master of Science, Computer Software Engineering

San Jose State University, San Jose, CA

May 2025

- **Related Course Work:** Enterprise Software Platforms, Cloud Computing, Virtualization Technologies

Bachelor of Technology, Computer Science & Engineering

National Institute of Technology Karnataka, India CGPA: 7.56/10

Jul 2020

- **Relevant Coursework:** Distributed Database System, Data Analysis and Algorithms, Data Mining and Computer Vision

TECHNICAL SKILLS

Programming Languages: C/C++/C#, Java, Python, Javascript, typescript

Web Technologies: HTML, CSS, Bootstrap, JavaScript, jQuery, Flask, Express.js, Nodejs, REST, Spring MVC Databases: MySQL, SQL PLUS, MongoDB, Angular, ruby

Cloud: AWS S3, Azure, Apache Tomcat, Heroku, Lambda, EC2, CloudWatch, SQS, SNS

Technologies / Tools: git, Matlab, Unix/Linux, Machine Learning, NLP, OpenCV, Deep Learning, CI/CD, Scrum, Unity3D, Android Studio, numpy, scikit-learn, Keras, bash

WORK EXPERIENCE

Senior Software Engineer, Oracle, Hyderabad, India

Feb 2022 - Jul 2023

- 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.
- 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.
- 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.
- Organized and led knowledge transfer sessions, enhancing the onboarding process for 15 new team members and fortifying expertise continuity.

Applications Developer, Oracle, Hyderabad, India

Sep 2020 - Feb 2022

- Crafted unique user interfaces for a new feature in Oracle's Marketing Automation product, Eloqua, utilizing React 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.

Data Scientist Intern, Axis Bank Thought Factory, Mumbai, India

May 2019 - Jul 2019

- 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. Also engineered a data pipeline to facilitate the creation of interactive, real-time reports, enabling simultaneous access to these insights across the organization.

PROJECT EXPERIENCE

- **Fraud Detection Through Keystroke Dynamics** 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 with data science modules. This unique system achieved an impressive user authenticity verification accuracy rate of over 95%.
- **Diabetic-Retinopathy using Deep Learning and MLOps** In this project, in collaboration with junior members, extensively explored and implemented the latest deep learning algorithms, including Vision Transformer, CapsuleNet, and various Ensemble networks. We applied this algorithms to 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.

ACCOMPLISHMENTS

- Scholastic Secured 1246 rank in JEE Mains, an entrance level examination for Btech institutes in India among, 1.3 million aspirants in 2016.
- Secured sponsorship of around 1000\$ from College to fund the filing of a patent for the fraud detection System. The patent application is currently under review.
- Nominated for Rookie award as actively been part of implementing UX design for the new feature developed at oracle and lead the UI team for the successful GA Product delivery.