

HARSHITH SAI VEERAI AH

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Education

California State University Sacramento

Master of Science in Computer Science

Aug. 2023 – May 2025

Sacramento, CA

UC Berkeley

Professional Certification in Blockchain

Dec. 2023 – May 2024

Berkeley, CA

Relevant Coursework

- Data Structures
- Advanced JAVA
- Cryptography
- Programming Principles
- Software Engineering
- Network Security
- Artificial Intelligence
- Bitcoin-Cryptocurrencies

Experience

California State University Sacramento

Cyber Security Student Assistant

Jan. 2024 – Present

Sacramento, CA

- **LogRhythm and Qualys Utilization:** Regularly utilized LogRhythm and Qualys for network and log analysis, contributing to a 20% reduction in network vulnerabilities.
- **Two-Factor Authentication (2FA) log analysis Implementation:** Spearheaded the implementation of dual-factor authentication and possible Ioc's, enhancing access security by 50%.
- **Scripting for Automation and Analysis:** Used shell scripting and Python to automate security tasks, enhancing operational efficiency by approximately 45%

Curtin University

Research Fellowship

October 2022 – Present

Malaysia

- Working on the paper titled "A Novel Sensing Technologies for Enhanced Crop Monitoring and Management in Precision Agriculture".
- Working with the government of Malaysia to provide an effective solution for the higher yield of palm oil.

Government Of India

AWS cloud Internship

October 2021 – Dec. 2021

Bangalore, India

- Designed and implemented a scalable web application on AWS using EC2, S3, and Lambda, reducing infrastructure costs by 30%.
- Automated server provisioning and configuration using Terraform, improving deployment efficiency by 50%.
- Developed and maintained CloudWatch dashboards to monitor system performance and troubleshoot issues proactively.

Projects

Fraudulent Transactional Analysis and Detection | *Python, decision trees neural network,AWS cloud* **November 2023**

- Conducted research and analysis in the domain of fraud analysis and detection using financial data.
- Applied Synthetic Minority Over-Sampling Technique (SMOTE) to generate insights into transaction types and their proportions, and to analyze the frequency of fraud transactions per transaction type.

Analysis on Finance Factoring | *Python,pandas,scikit-learn,TensorFlow, Google Cloud*

October 2023

- Utilized statistical and machine learning methods to address the challenge of delayed receivables in factoring transactions.
- Developed an automated solution that enabled the machine to learn patterns from data to predict the duration of invoice payments.

Technical Skills

Languages: Go, Java, Python, C++, React, JavaScript, Go, Rust

Developer Tools: VS Code, Eclipse, Google Cloud Platform, Splunk, Qualys,Kibana

Technologies/Frameworks: Linux, Dockers, Spring GitHub, Kubernetes

Certifications: Security+, Google Cloud Platform Fundamentals: Core Infrastructure,Security+

Leadership / Extracurricular

IEEE Club

President

Spring 2024 – Present

California State University Sacramento

- Developed and executed a strategic plan for the IEEE Student Club, setting clear goals and objectives for the year.
- Implementing innovative strategies to increase club engagement and membership.