SRIJA REDDY OBULA

Fresno, CA (open to relocate) | obulasrijareddy@gmail.com | 559-942-2290| www.linkedin.com/in/srija-obula

Education:

M.S., Computer science , California state university, Fresno (Fresno State) | GPA: 3.45 **05/2024**
B.S.,Informational technology, Sreenidhi Institute of Science and Technology , India | 3.75 05/2022

Work Experience :

Summer Internship At Meta Trace **(July 2021 - July 2022**):

- Spearheaded a project on Web-3 Phishing Attacks Detection, leveraging expertise in Linux, Forta Agent, and Solidity for the Ethereum blockchain.
  Collaborated with a team of cybersecurity professionals to analyze and mitigate crypto exchange attacks, gaining insights into cryptocurrency security protocols.
  Conducted penetration testing and vulnerability assessments to fortify system defenses against cyber threats.
  Contributed to the design and implementation of cybersecurity protocols and strategies, ensuring compliance with industry standards and best practices.

Cyber Security Instructor **(Jan 2024-Present)**

- I specialize in equipping beginners with the fundamental knowledge and skills to navigate the ever-evolving landscape of digital security.I lead comprehensive modules covering programming fundamentals, access control, authentication mechanisms, virtual machines, cloud computing, and cyber law. My course emphasizes hands-on experience with tools like AWS, Docker, and security frameworks, preparing students for careers in cybersecurity.

Projects:

WEB-3 Phishing Attacks Detection,Intern

- I applied my expertise in Linux, Forta Agent, and Solidity for the Ethereum blockchain to develop a phishing attack detection system. I played a key role in deploying Forta Agent on the Linux platform, integrating machine learning algorithms like SVM and Random Forest to enhance detection efficacy. Additionally, I have comprehensive knowledge of NFTs, wallets, and other blockchain technologies, which supported the overall development and effectiveness of the project.

KWIC using Design Patterns, SNIST, India

- In the KWIC project, we integrated several design patterns to enhance functionality and maintainability. Part 1 involved using the Abstract Factory for object creation, the Builder pattern for constructing complex objects, and the Singleton pattern to ensure a single instance of key components. Part 2 incorporated the Decorator pattern to dynamically add responsibilities to objects and the Composite pattern to treat individual objects and compositions

Credit Card Fraud Detection System, SNIST, India

- Credit Card Fraud Detection System utilizes Python programming and machine learning algorithms, including SVM (Support Vector Machine), to detect fraudulent transactions with high accuracy, achieving 96%. The system employs advanced data preprocessing techniques and anomaly detection methods to identify suspicious activities.

Yoga pose detection, CSUF

- Yoga pose detection system focusing on the back end, utilizing computer vision and machine learning. The system will receive images or video feeds, process them using convolutional neural networks (CNNs) for pose recognition, and provide real-time feedback on the correctness of yoga poses. It will feature an API for integration with front-end applications, and a database to store user progress and analytics.

College Information System , SNIST, India

- College Information System integrates the Laravel framework and utilizes APIs such as Google Maps for location-based services, Twilio for SMS notifications, and SendGrid for email communication. The system is built with SQL for database management, PHP for server-side scripting, and HTML/CSS for front-end design.

Crop yield Prediction Using ML(Neural Networks),SNIST, India

- Implemented five diverse algorithms - RNN, LSTM, Feed-forward Neural Networks, Decision Tree Algorithms, and Random Forest - to analyze and predict crop yields. Conducted a comprehensive performance comparison based on accuracy metrics. Illustrated results through graphical representations highlighting the top 6 states and their expected yields. This research endeavor culminated in a published paper detailing the project

Technical Skills:

C, C++, Python, Java, JavaScript, PHP, Haskell, OZ,HTML, React.js, Git,AWS,Node.js, ,MySQL,NoSQLdatabases,PostgreSQL, CockroachDB, Oceanbase, TiDB, ETCD, Zookeeper AWS, Data Structures and Algorithms,CI/CD,Data Mining and Warehousing, Spark, Hadoop,Windows/Linux, Containerization (Docker), Virtual Machines (VM),DNS, Load Balancing, SSL, TCP/IP, HTTP,SPDK,Networking Protocols - TCP,IDP,Agile.