MONISH SRI SAI DEVINENI (Willing to Relocate)

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EDUCATION

Master of Science in Computer Science, Florida Atlantic University CGPA: 3.77/4 August 2023 - May 2025
Coursework: Analysis Of Algorithms, Reinforcement Learning, Cloud Native Development, Computer Data Security

Bachelor of Technology in Computer Science, Amrita School Of Computing, (Coimbatore, India) CGPA: 7.99/10
Coursework: Data Structures, Compiler Design, Operating Systems, Computer Networks, Software Development Life Cycle

Technical Skills

- **Programming:** C++, C#, Python, Java, JavaScript, TypeScript
- **Web Technologies:** HTML5, CSS3, React JS, Node JS
- **Cloud:** MySQL, Amazon Web Services, GCP, Azure
- **Databases:** MySQL, MongoDB
- **Frameworks and Tools:** Git, TensorFlow, React, Angular, Flask
- **Other Skills:** Agile Methodologies**,** OOPS through Java

EXPERIENCE

Honeywell, India | *Intern Bachelors Software Developer* June 2024 – Present

- Diagnosed and resolved 10 critical issues within legacy software using JAVA EE stack and pinpointed the major root causes of system crashes.
- End-user experience was developed by using **React JS** and **Leaflet JS** integrating interactive elements and custom components and by replacing legacy UI build by using JAVA with React JS the overall performance the application was improved by 50%.
- Restructured backend systems to support **JSON** formatting for streamlined mapping capabilities while implementing a robust **RESTful API** that increased data retrieval speed by over 30%.
- Drove app reliability by conducting rigorous code reviews that led to a 15% reduction in bug occurrences and utilized POSTMAN to perform detailed unit testing, resulted in increase of overall system functionality.

PERSONAL PROJECTS

Web-Based Image Captioning and Description Application August 2024 - November 2024

- Build a **cloud native** web application that is highly available 99.9% by users for image captioning and description using Python Flask, Google Cloud Platform (GCP), and **Gemini API**.
- Integrated a Large Language Model (LLM) via Gemini API to generate 99.99% accurate descriptive captions for uploaded images.
- Implemented advanced automation frameworks using GitHub **CI/CD** pipelines on Google Cloud Platform and streamlined deployment processes for applications powered by both Python Flask and Gemini API.

Ransomware Malware Classification using Control Flow Graphs (CFG) July 2022 - June 2023

- Analyzed more than 100 unique binaries with precision, extracting node-level characteristics from Control Flow Graphs (CFGs) and findings facilitated identification of common weaknesses exploited by hackers during attacks on systems.
- Extracted node-level and graph-level features from CFGs to identify patterns and characteristics of binary files.
- Engineered a classification system for malware using **Control Flow Graphs**, enhancing **malware detection** precision and achieved accuracy of 93%.

Deep Learning – Plant Disease Detection January 2022 - May 2022

- Development Environment: Google Colaboratory for collaborative Python programming and data analysis.
- Created a **CNN**-based model to identify plant diseases using Python and TensorFlow, achieving 88% accuracy and enabling better crop management for farmers.

Painting Rental Website Development July 2020 - December 2020

- Implemented Designed a web application using **Java Swing** for the user interface and MySQL for backend database management, ensuring seamless functionality.
- Built a user-friendly platform enabling art enthusiasts to rent paintings with tailored pricing options, increasing user satisfaction scores by 40%.

Licences and certification

- AWS Cloud Quest: Cloud Practitioner
- Microsoft Certified: Azure Fundamentals