

SAIRAM MADALA

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EDUCATION

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

Masters | Computer Science | CGPA: 4.0/4.0

Aug 2024 – Present

PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY

Bachelor of Technology | Information Technology | CGPA: 9/10

Sep 2020 – Apr 2024

EXPERIENCE

GRADUATE ASSISTANT AT UMBC

Feb 2025 – Present

- As a Graduate Assistant for Operating Systems, I assisted in grading and debugging assignments using C, C++, and Python while leading lab sessions on process management, memory management, and concurrency. I also provided technical support for Linux system programming and virtualization, helping students understand key OS concepts through hands-on guidance.

WEB DEVELOPMENT INTERNSHIP AT OASIS INFOBYTE

May 2023 – Jun 2023

- Orchestrated the development of a user-centric React application by designing and implementing intuitive front-end interfaces and robust back-end services. Managed API integrations, optimized application performance, and ensured seamless data flow between client and server to deliver a high-quality user experience.

AI-ML VIRTUAL INTERNSHIP AT AWS ACADEMY

Jul 2022 – Sep 2022

- Utilized AWS services including Amazon EC2 for scalable computing, AWS Lambda for data processing, and Amazon S3 for storage. Configured resources and automated provisioning with AWS CloudFormation, while monitoring performance with AWS CloudWatch to optimize AI/ML workflows.

CYBER SECURITY VIRTUAL INTERNSHIP AT PALO ALTO ACADEMY

Mar 2022 – May 2022

- Executed SQL injection and Man-in-the-Middle attacks, utilized Wireshark for traffic analysis, performed ARP spoofing, and conducted MAC address spoofing to strengthen network and application security.

PROJECTS

WHATSAPP CHAT INSIGHTS (*Streamlit, Data Visualization, ML*)

Jan 2024 – April 2024

- Developed WhatsApp Chat Insights that offers a comprehensive display of various chat insights, utilizing advanced techniques to analyze and visualize data within WhatsApp conversations.

PRODUCT RECOMMENDATION SYSTEM (*HTML, CSS, JavaScript, ML, Flask*)

Jul 2023 – Aug 2023

- The web app combines content and collaborative recommendation models to suggest personalized products, analyzing individual preferences and collective user behavior for accurate suggestions and an improved user experience.

ASKREDDIT TROLL QUESTION DETECTION CHALLENGE (*Machine Learning*)

May 2023 – Jun 2023

- A machine learning model which with the help of Natural language processing, predicts whether a given question on reddit is a troll question or not.

REACT WEATHER APP (*ReactJS, API's*)

Apr 2023 – May 2023

- Developed a weather application that displays the current weather conditions for a given location. It involves making API requests, Handling Asynchronous code and rendering Dynamic data while doing this project.

HOTEL MANAGEMENT SYSTEM (*HTML, CSS, JavaScript, JDBC, MySQL, JSP*)

Jan 2023 – Feb 2023

- Developed a Full Stack Hotel Management Application where customers can easily book/Cancel the Reservations. On the other end, Receptionist can easily keep track of reservations and the system allows hotel staff to efficiently manage guest reservations, including room availability, check-in, check-out, and room assignment.

PUBLICATIONS

HUMAN ACTIVITY CLASSIFICATION BASED ON SMARTPHONE DATA USING ML TECHNIQUES

(*International Journal for Innovative Engineering and Management Research*)

Feb 2023

- The Publication mainly focuses on recognizing the fundamental human activities such as running, standing, and walking using Supervised Machine Learning techniques.

ADDITIONAL

- TECHNICAL SKILLS:** Python, Java, C++, C, HTML, CSS, JavaScript, ReactJS, NodeJS, ExpressJS, MongoDB, JSP, JDBC, API's, MySQL, AWS, Git and GitHub, Machine Learning, Flask, Bootstrap
- CERTIFICATIONS:** Advanced React, HTML, CSS, JavaScript, Git and GitHub (*Coursera*), Java, DBMS (*NPTEL*), Python, Cyber Security (*Cisco Networking Academy*), C and C++ Training (*Spoken Tutorial*).
- CO-CURRICULAR ACTIVITIES:** Attended International Conference (*Bangladesh*), Attended Global Entrepreneur Summit (*GES – 2023*), Participated in Hackathons (*3rd place in PVPSIT Hackathon, Smart India Hackathon*).