Sai Ram Varma Budharaju

Gainesville,FL

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Personal Profile

Enthusiastic graduate with hands-on experience in scalable systems and software engineering. Led projects in network management and developed innovative security and healthcare applications. Ready to leverage extensive operational knowledge and analytical reasoning to enhance service delivery, drive continuous improvement, and maintain high standards.

Education

University of Florida — *Gainesville, Florida*

Masters in Science, Computer Science — *August 2022 - May 2024*

Gandhi Institute of Technology and Management — *Visakhapatnam, India*

Bachelors in Technology in Computer Science Engineering. — *June 2016 - May 2020*

Skills

Languages & Technologies	Java, Python, JavaScript(ES6+), React, SQL/MySQL, MongoDB, Node.js, Bash/Shell Scripting
Professional Competencies	Problem Solving, Adaptability, Leadership, Project Management, Collaborative Teamwork, SLA Compliance
Development Skills	API Integration, FastAPI, UI/UX Design, Full-Stack Development, Network Administration
Tools & Frameworks	Git, Jenkins, Linux/Unix, Wireshark, Cisco Packet Tracer, ISDK, AWS

Work Experience

University of Florida — *Gainesville, Florida*

Software Engineer — *January 2024 - Present*

- Developing an iOS app to combat alcohol addiction among youth, using SwiftUI for the front-end and Node.js for the back-end, and managing server infrastructure and notifications with AWS services.
- Leading the design process from requirement gathering with citizen scientists to prototyping in Figma, ensuring a user-friendly and effective interface.
- Collaborating with multiple stakeholders and conducting comprehensive testing to ensure high standards of performance, security, and reliability, handling end-to-end development from design to deployment.

Tata Consultancy Services with Nokia Networks as Client — *Chennai, India*

Assistant Systems Engineer — *October 2020 - April 2022*

- Led the development and implementation of Network Management Systems Adaptors, optimizing Nokia NetAct's fault and performance management protocols, significantly boosting system reliability and client satisfaction.
- Orchestrated the design and execution of an automated regression testing strategy, reducing manual testing efforts by 70% through advanced scripting and continuous integration techniques.
- Developed and deployed custom converters for network metrics analysis, enhancing data accuracy and facilitating custom client reports.
- Delivered mission-critical support to major clients such as T-Mobile, AT&T, and Vodafone, resolving over 85% of issues on first contact and significantly boosting customer satisfaction.

Cassini Systems — *Hyderabad, India*

Software Developer Intern — *May 2019 - July 2019*

- Designed(coding) and developed a cutting-edge prototype for a facial recognition system capable of identifying persons of interest from live security camera feeds, enabling real-time threat analysis and notifying authorities via email notification.
- The project was primarily developed in Python, integrating OpenCV for image processing and TensorFlow for machine learning tasks. Utilized Numpy for efficient data handling and computational operations, ensuring swift processing even with large datasets.

Projects

Care Companion — *Gainesville,FL*

University of Florida — *Oct 2023 - Nov 2023*

- Developed CareCompanion, an iOS application designed to enhance patient-doctor communication and patient time tracking, post-consultation, ensuring effective healthcare management and improved patient diagnoses outcomes.
- Utilized a diverse range of technologies including React (front End), Node.js (back-end), MongoDB (database), Express.js (web application framework), JWT for secure authentication, and Axios for HTTP requests.

Twitter Simulator - Client-Server — *Gainesville,FL*

University of Florida — *Nov2022 - Dec 2022*

- Developed a scalable and secured Twitter-like platform with a client-server model,leveraging web sockets to support real-time features such as hashtags, mentions, retweets, and follows concurrent usage by a large number of users.
- Designed and implemented a simulator using Zipf distribution to generate users and test features, employing middleware architecture and ETS tables for seamless client-server communication and monitoring user activity.