Chandra Shekar Reddy Vangala

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Education

University of Central Florida   **Jan 2024 – Dec 2025**
Master of Science in Computer Science GPA:3.92/4.0   *Orlando, Florida*

Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL, MySQL, Node.js, MongoDB.
Software Development: Object Oriented Programming, Data Structures, Algorithms, RESTful API Development.
Developer Tools: Git, Bash, VS Code, PyCharm, Jupiter Notebook, Visual Studio, Docker, Jenkins, Kubernetes.
Technologies/Frameworks: Flask, Django, React, Angular, Express JS, AWS.

Experience

Nagarro   **Aug 2022 – Oct 2023**
Software Engineer   *Telangana, India*

- Redesigned and optimized responsive web pages using ReactJS, leading to a 15% increase in user engagement and a 20% reduction in page load times.
- Introduced a new Real-Time Telematics Monitoring feature, integrating telemetry devices on railcars to collect and display real-time data on location, speed, and condition, improving operational efficiency by 25% and user satisfaction by 20%.
- Utilized RESTful APIs with Node.js and Express.js to enable seamless communication between telemetry devices and the backend, reducing data transmission latency and improving operational efficiency.
- Leveraged AWS and MySQL for cloud-based data storage and processing, reducing database query times and optimizing system performance.
- Collaborated with cross-functional teams using agile methodologies and resolved 30+ bugs, improving site stability and reducing user-reported issues by 25%.

RQB Technologies   **Jan 2022 – Aug 2022**
Software Engineer Intern   *Remote*

- Ideated and developed a responsive web application for API testing using React, enhancing testing efficiency and reducing manual intervention by 20%.
- Designed and implemented 3 APIs, enhancing key functionalities such as IP verification, token generation, and database interactions, which led to a 20% improvement in response times.
- Built a Python-based backend to handle authentication processes, using network-based SIM identification, reducing manual intervention and increasing system security.
- Created network-based authentication through SIM-based IP address mapping, strengthening security and improving login success rates by 30%.
- Integrated MongoDB to log critical API responses and authentication attempts, enhancing audit capabilities and reducing troubleshooting time.

Projects

Expense Tracker Application | *React, Node.js, Express.js, MongoDB, Bootstrap, Chart.js.* | **GitHub**   **July 2024**

- Built a user-friendly application for managing personal finances, allowing users to track income, expenses, and budgets. Incorporated customizable budgeting tools to enable users to set, adjust, and monitor financial goals. Utilized data visualization with Chart.js to offer clear insights into spending patterns and financial trends.

Virtual Try-On Room | *Python, Flask, OpenCV, MySQL* | **GitHub**   **July 2022**

- Developed an immersive Virtual Try-On Room using Python, enabling users to try on clothing items in a simulated digital environment. Applied advanced image processing methods to boost the accuracy of virtual clothing fitting by 25%. Integrated interactive functionalities, allowing users to personalize clothing choices and accessories.

Certificates And Achievements

- Certified by GeeksforGeeks on completing Data Structures & Algorithms in Python.
- Certified by University of Michigan in Coursera on completing Python for Everybody (Specialization).
- Secured first prize in the college coding competition at the tech fest, outperforming 500 participants.
- Solved over 800 coding challenges on platforms like LeetCode, GFG, and HackerRank, demonstrating advanced proficiency in algorithms and data structures.
- Achieved the Python Gold Level Badge on HackerRank after completing 100+ coding challenges with an average score above 95%, highlighting strong expertise in Python programming and problem-solving skills.