

Amal Guduru

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EDUCATION

University of South Florida

M.S. Computer Science

Vellore Institute of Technology

B.S. Computer Science

Tampa, Florida

08/2022 - 05/2024

Vellore, India

06/2018 - 06/2022

TECHNICAL SKILLS

Technical Skills: Java, Python, SQL, C++, SQL, NoSQL, JavaScript, HTML, CSS, React, Redux, Typescript, Node.js, Express.js, MongoDB, REST APIs, JWT and GraphQL

Libraries and Tools: Numpy, Matplotlib, Tensorflow, Keras, OpenCV, GitHub, WordPress, Content Management System

Cloud Computing and Integration: Amazon Web Services

Recent Works: - <https://amalguduru.github.io/portfolio/>

WORK EXPERIENCE

Web Developer

06/2019 - 02/2021

IEEE IAS Chapter, Tamil Nadu, India

- Created and improved a website using the MERN stack, boosting the chapter's online presence by 50%. Added frontend features for user login and profiles to highlight students' achievements and publications.
- Showcased students' projects and research on the website, providing an interactive platform for academic recognition and networking.

Full Stack Developer

02/2021 - 03/2022

Electric Tech, Telangana, India

- Leveraged React.js for frontend development, creating interactive user interfaces and responsive web applications. Employed optimized database architecture and performance tuning techniques for backend data handling and processing.
- Integrated React.js frontend with the database architecture, ensuring seamless communication and efficient data exchange between the frontend and backend layers
- Implemented authentication and authorization mechanisms using JSON Web Tokens (JWT) to secure the communication between React.js frontend and the database.

PROJECTS

- **Commercial Aircraft Purchase Portal**, For the user interface, I applied HTML, CSS, and JavaScript, ensuring a responsive and intuitive design which led to a 30% increase in user engagement. Spearheaded the implementation of a unique feature allowing users to freely select aircraft models without vendor restrictions, resulting in a 20% increase in booking conversions and a 15% boost in overall revenue.
- **MERN Stack Travel Packing List Application**, Developed a full-stack web application utilizing the MERN stack to create a dynamic travel packing list. Integrated CRUD operations for adding, editing, and deleting items, along with sorting functionality based on input order, description, and packed status. Implemented state management and responsive design for an intuitive user experience, deployed on AWS EC2 using Docker and GitHub Actions for continuous deployment.
- **Eat and Split Bill**, Developed a React-based web application allowing users to manage friend lists and split bills seamlessly. Implemented features such as adding friends with custom names and images, selecting friends to split bills, and dynamically calculating expenses. Employed state management with React hooks, utilized form handling for user input, and integrated components for a smooth and intuitive user experience. [GitHub](#)
- **GoalSetter**, Built backend using Node.js, Express, and MongoDB. Implemented RESTful APIs for user authentication and goal management. Created React app with Redux for state management and React Router for navigation. Included forms for user login and goal management dashboard. Integrated frontend and backend seamlessly. Enabled secure interaction through API calls for users to manage goals.

CERTIFICATIONS

- AWS Certified Developer – Associate
- Frontend Development using React, The Ultimate React Course 2024: React, Redux and Machine Learning Specialization