

# Amal Guduru

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## EDUCATION

### University of South Florida

M.S. Computer Science

Tampa, Florida

08/2022 - 05/2024

### Vellore Institute of Technology

B.S. Computer Science

Vellore, India

06/2018 - 06/2022

## TECHNICAL SKILLS

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

**Libraries and Tools:** Numpy, Matplotlib, Tensorflow, Keras, OpenCV, GitHub, WordPress, Content Management System, Cross-Platform Mobile Development

**Cloud Computing and Integration:** Amazon Web Services

**Recent Works:** [Portfolio](#)

## WORK EXPERIENCE

### Software Developer

06/2019 - 02/2021

IEEE IAS Chapter, Tamil Nadu, India

- Developed and deployed a Java-based website using Spring Boot, enhancing the chapter's online presence and engagement with industry professionals.
- Integrated a MySQL database for robust data management and implemented RESTful APIs for seamless data exchange.
- Designed responsive frontend interfaces with HTML, CSS, and JavaScript, ensuring a user-friendly experience across devices.

### 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

- 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.
- Library Management System**, Developed a Java application to manage library books and user information. Implemented features for adding, editing, and deleting books, as well as tracking borrow and return transactions. Used Swing for the user interface, ensuring a simple and user-friendly design. Integrated with a MySQL database for efficient data storage and retrieval.

## CERTIFICATIONS

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