

## RAGHAVA RAO ARREBELLY

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### Education

**University of Cincinnati** - Cincinnati, USA

**Jan 2023-Apr 2024**

Master of Science in Information Technology.

**GPA: 4.0**

**Coursework:** Machine Learning, Cloud Azure, Mobile Application Development, UI/UX, Advance Storage Technologies.

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### Skills

- **Languages:** JavaScript (ES6+), TypeScript, JSX, HTML5, CSS3, SASS, PHP, XML, JSON, Java, kotlin, Python, Go, C, C++.
  - **Frameworks and Libraries:** React JS, Redux, Next JS, Angular JS, Node JS, Express JS, GraphQL, D3, jQuery, J2EE.
  - **Cloud Services:** AWS (EC2, VPN, Lambda), Azure (DevOps, Storage), Salesforce (CRM, Service Cloud).
  - **Databases:** SQL (MySQL, SQLite, Postgres), NoSQL (MongoDB, Azure Cosmos DB).
  - **Tools & Software:** Jest, Git, GitHub, Docker, Kubernetes, Agile, Jira, Confluence, Bitbucket, Devops, Kafka.
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### Work Experience

**UC Housing, USA - Full Stack Developer**

**Jun 2023-Apr 2024**

- Spearheaded the developments in UC Housing website portal, enhancing UI and backend navigation process.
- Utilized React JS to integrate interactive floor layouts, providing flexible navigation options, and reducing the application processing timeline by 30%.
- Applied Model View Controller (MVC) architecture to ensure a clear separation of concerns, enhancing maintainability and scalability of the application.
- Participated in sprint planning, debugging, unit testing and code reviews to ensure timely and high-quality deliverables.

**Tata Consultancy Services, India - Full Stack Developer**

**Dec 2021-Dec 2022**

- Led a Full Stack project utilizing React JS, TypeScript, Node JS, Express JS, and MongoDB, focusing on creating scalable and efficient server-side rendering solutions by following WCAG standards.
- Used TypeScript for type checking and efficient error finding, and Redux for state management, ensuring responsive design and modular architecture with JavaScript, HTML5, CSS.
- Integrated RESTful APIs into React applications using Axios and Fetch, enhancing data retrieval speeds by 15% and reducing server load. Applied data structures and algorithms to optimize performance and data processing.
- Implemented secure token-based authentication with JWT, significantly enhancing system security and reducing unauthorized access incidents by 20%.
- Leveraged object-oriented design principles and design patterns, creating modular, maintainable, and reusable code.
- Optimized AWS deployment and automated testing process by implementing CI/CD pipelines using Jenkins and Cypress.
- Collaborated with cross functional teams to troubleshoot and performed upgrades to the existing codebase.
- Conducted QA testing, ensuring robust and reliable application performance, and secured signoffs from stakeholders.

**Tata Consultancy Services, India - Front End Developer**

**Sep 2019-Dec 2021**

- Designed responsive user interfaces using HTML, CSS3, React JS, and Redux focusing on enhancing aesthetics and interactivity, driving a 20% increase in the user engagement.
  - Associated with UI/UX designers, product managers, and QA teams to enhance responsiveness and user feedback.
  - Developed CSS modules to ensure consistent styling across of all application screens and precise object positioning.
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### Projects

**Book Exchange Web Application - React JS, Node JS, Express JS, MongoDB**

- Developed a real-time online book exchange application, fostering a community of readers. Utilized agile methodologies to ensure a seamless user experience with efficient middleware handling.
- Integrated over 20 reusable React components for user-friendly interface, coupled with RESTful API endpoints to promote application interactivity.

**Exam Hall Seating Arrangement - JavaScript, Bootstrap, PHP, MySQL, Xampp**

- Built a system to streamline examination hall allotment and seating arrangements for educational institutions, reducing manual workload.
- Efficiently managed student examination information and generated room plans while ensuring invigilation duties are assigned to faculty without scheduling conflicts reflecting 97% accuracy.

**Simulation of ATM Operations – Java Swing, Applets, JDBC, SQL**

- Developed a robust Java-based ATM simulation system with automated processes for PIN validation, transaction completion, and real-time record updating between bank servers and a network of ATMs.
- Implemented user and admin roles with specific privileges, enabling secure operations for services like cash withdrawal, deposit, transfer, and account inquiry ensuring seamless user experience.