

Ramya Karuthappandian

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EDUCATION

Northeastern University, Boston, MA *Master of Science, Information Systems, GPA: 3.85/4* Sep 2024 – Dec 2026
Coursework – Application Engineering and Development, Data Management and Database Design, Data Structure & Algorithms, Web Design and User Experience Engineering, Practical Applications of AI Generative Modeling, Data Science Engineering Methods

Sri Venkateswara College of Engineering, Chennai, India *Bachelor of Engineering in Computer Science* Aug 2017 - May 2021
Coursework: Object-Oriented Programming, Machine Learning, Computer Networks, Cloud Computing, Operating systems, Software Engineering, Artificial Intelligence

WORK EXPERIENCE

Graduate Teaching Assistant, Northeastern University, Boston, MA Sep 2025 – Present

- Assisted in teaching core programming and algorithmic techniques, reinforcing lecture material through real-world coding examples
- Mentored and supported a class of 50 students by holding regular office hours, providing coding guidance, and promptly addressing doubts via email and discussion forums
- Reviewed and provided feedback on student code submissions, improving code quality, readability, and adherence to programming best practices

Software Engineer, Cognizant, Bangalore, India Sep 2021 - Jul 2024

- Built a scalable front-end framework for e-commerce platform using **React.js**, Next.js Router, **Redux** Toolkit (Persist), and Sass developed reusable, configurable components (tables, dropdowns, breadcrumbs, side panels, tabs, search bars), reducing code duplication by ~40% and accelerated feature delivery for 10+ global marketing teams
 - Developed the “Level Details” page using **Angular 12**, implementing Level 2 & 3 forms with CRUD operations and live total calculation to support merchant payment data entry
 - Implemented conditional rendering logic to dynamically show/hide sections based on merchant type, currency (GBP/EUR), and card type (Visa/Mastercard/Amex), and collaborated with the Spring Boot API team to validate responses and enable card authorization workflows
 - Improved application quality, stability, and compliance by fixing production bugs, implementing **WCAG 2.1 AA** accessibility compliance, enabling **i18n support**, and writing **Jest unit tests** achieving 85% code coverage — maintained 99.9% uptime and improved application performance by 15%
 - Improved delivery process and collaboration by validating POST-based APIs with Thunder Client, tracking sprints in Jira, conducting PR reviews via Bitbucket/GitHub
 - Designed and implemented backend REST APIs** using **Spring Boot, JPA, and MySQL**, building secure role-based login flows and CRUD endpoints — delivered a functional admin portal that eliminated manual issue tracking and improved resolution workflows
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TECHNICAL SKILLS

Programming Languages:	Python, Java, C/C++, HTML5, CSS, JavaScript, Typescript, SCSS
Frameworks & Libraries:	React.js, Angular, Node.js, Next.js, Redux Toolkit, RESTful APIs, JSON, Material UI, Angular Material, AG Grid, React Bootstrap
Databases/Cloud:	MySQL, Oracle, MongoDB, Firebase, AWS (EC2, RDS, S3)
Development tools & IDEs:	Git, GitHub, Bitbucket, VS Code, Jira, JUnit, Jest, Postman, ESLint, Agile methodology

PROJECTS

Netflix Clone | ReactJS, Redux, and Firebase, TMDB API

Built a Netflix-like streaming platform with secure authentication and state management using Firebase and Redux. Integrated Stripe for subscription billing, enabling seamless payment workflows and personalized user plans

MARC's Blueprint Sync | React.js, Redux-toolkit, Express.js, MongoDB, i18n-next, Figma

Built a scalable architecture with React and Express.js to streamline construction project workflows. Reduced development time by 20% using Redux toolkit and reusable components. Enhanced real-time collaboration using Fugu capabilities, improving team communication

HONORS & AWARDS

Coral Award for exceptional UI development and on-time, high-quality delivery in the Unilever Workspaces Modernization project