Amretasre Rengarajan Thiruvengadam

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EDUCATION

Northeastern University, Boston, MA   Sept 2022 - May 2024
Master of Science in Information Systems
Courses: Algorithms and Data Structures, Cloud Computing, Design Patterns, Object Oriented Design

SRM Institute of Science and Technology, Chennai, India   July 2016 - May 2020
Bachelor of Technology in Electrical and Communications Engineering

TECHNICAL SKILLS

Programming Languages: JavaScript (ES6-ES2020), TypeScript, Java

Frontend: React.js, Redux, HTML5, CSS3, PostCSS, SASS, Tailwind CSS, Bootstrap, Webpack, Figma

Backend: Node.js, Express.js, RESTful APIs, GraphQL, OAuth, JWT

Automated Scripting Tools: NPM, Yarn, Maven

Database: MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch

Infrastructure and Version Control: Git, GitHub, GitLab, Pulumi, Terraform

Testing Tools and Frameworks: Jest, Mocha, Chai, Enzyme

Software Management: Agile Methodology, SCRUM Methodology, Atlassian Product Suite

Cloud Systems: EC2, RDS, DynamoDB, Lambda, IAM, VPC, Route 53, CloudWatch, VPC

WORK EXPERIENCE (2+ Years of Experience)

Software Developer, IpserLabs, Remote   Aug 2024 - Present
- Developed a scalable quiz application using React.js and Redux, improving user engagement by 40%
- Led cross-functional design collaboration to create accessible and pixel-perfect UIs aligned with brand guidelines
- Optimized application load time by 30% and ensured compliance with WCAG 2.1 accessibility standards

Frontend Developer, New York State Office of ITS, Albany, New York   May 2023 - Aug 2023
- Digitized forms by developing dynamic features like tables and tooltips using JavaScript (ES6) and CSS3, increasing efficiency by 35%
- Built and deployed modular UI components, ensuring performance across devices and improving accessibility
- Participated in UX design discussions, improving engagement and accessibility through responsive designs
- Enhanced development workflows by creating a Node.js command-line tool for automating base project setup, expediting team onboarding

Full Stack Developer, Cognizant Technology Solutions, Chennai, India   Feb 2020 - July 2022
- Built reusable React.js components and implemented state management using Redux, enhancing UI performance and engagement by 10%
- Automated workflows with GitLab CI/CD, reducing deployment times by 20%, and ensured testing rigor with Jest achieving 95% coverage
- Managed source code using Git and GitLab, ensuring clean version control practices and seamless collaboration
- Integrated RESTful APIs for seamless communication, achieving a 10% improvement in data load speeds
- Designed a custom CSS grid system and implemented SASS for responsive layouts, optimizing cross-browser compatibility and load speeds
- Worked on cross-functional Agile teams, contributing to project planning, prioritization, and troubleshooting
- Resolved high-priority production issues during high-traffic events, ensuring uptime and availability through monitoring with New Relic
- Conducted code reviews, analyzing complexity and reducing duplications by 30% with SonarQube

PROJECTS

Assignment REST API using Spring Boot: Java Spring Boot, RESTful API, JPA, MySQL   Sept 2024 - Nov 2024
- Built a MVC based RESTful API using Spring Boot for managing assignments with seamless MySQL database interactions
- Utilized JPA and Hibernate ORM for seamless database interactions, optimizing query performance through object-relational mapping

Assignment Management API using Node.js: AWS, GitHub Actions, MySQL, Node.js, Postman, RESTful API   Sept 2023 - Nov 2023
- Designed a cloud-based system using AWS Lambda and Node.js, ensuring high availability and performance
- Implemented IAM-based access control and serverless processing for secure, efficient operations
- Automated deployments with GitHub Actions, reducing time-to-market and integrated performance monitoring with CloudWatch
- Conducted performance and load testing using Postman to validate system reliability under varying workloads

Secure API for Insurance Services: Redis (NoSQL), Node.js, Postman, Elasticsearch, RESTful API   Sept 2023 - Nov 2023
- Developed a scalable, secure API for insurance services using Node.js and Redis, integrating OAuth 2.0 for robust authentication
- Leveraged RabbitMQ for asynchronous processing ensuring scalability, fault tolerance
- Indexed insurance records with Elasticsearch, improving search query performance by 40%

Travelling Salesman Problem: Java, Optimization (2 opt, 3 opt)   Jan 2023 - Apr 2023
- Optimized route calculations using advanced algorithms and data structures, improving computation speed by

Grocery Recommendation Database: MySQL, Python, Jupiter Notebook   Sept 2022 – Dec 2022
- Designed a MySQL database with Tweet scraping, leveraging SQL for data analysis and Pyplot for visualization