

Amretasre R T

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Experienced software engineer with a strong grasp of resource allocation, engineering principles, and the software development process. Proficient in all stages of advanced web application development with industry experience in enterprise applications. Well-versed in front-end development, testing, troubleshooting, and agile methodologies. Additionally skilled in DevOps processes, demonstrating proficiency in JavaScript technologies such as React JS, Node JS, and Express JS along with expertise in Java Technologies. Known for effective teamwork and self-driven approach in managing deliverables

EDUCATION

Northeastern University

Master of Science in Information Systems

Boston, MA | May 2024

Courses: Data Management and Database Design, Program Structure and Algorithms, Network Structures and Cloud Computing, Advance Big Data Indexing and Methods, Design Patterns, Concepts of Object-Oriented Design

SRM Institute of Science and Technology

Bachelor of Technology in Electrical and Communications Engineering

Chennai, India | May 2020

TECHNICAL SKILLS

FRONTEND DEVELOPMENT

JavaScript, JEST, Mocha, Java SE, REST API, Typescript, Java FX

BACKEND DEVELOPMENT

Node JS, Express JS, Java EE (J2EE), GraphQL, Elasticsearch, JSON

FRAMEWORKS

React JS, Java Swing, Spring (MVC)

AWS CLOUD SYSTEMS

EC2, RDS, DynamoDB, Lambda, IAM, VPC, Route 53, CloudWatch

INFRASTRUCTURE AS CODE

Pulumi, Terraform

DESIGN TECHNICAL SKILLS

HTML5, CSS3, Bootstrap, SASS, Figma

DATABASE

MySQL, MongoDB, Redis

SOFTWARE DEVELOPMENT LIFE CYCLE PLANNING

Agile Methodology, SCRUM Methodology

VERSION CONTROL SYSTEM AND CICD

Git, GitLab CI/CD, GitHub Actions

SECURITY

JWT, OAuth 2.0

SOFTWARE TOOLS AND LIBRARIES

NVDA, Redux, JIRA, Snyk, SONAR, ESLINT, Postman, SceneBuilder

INDUSTRY EXPERIENCE

Frontend Developer, New York State Office ITS.

Albany, New York | May 2023 - Aug 2023

- Designed and implemented custom web components using JavaScript, including components specifically tailored to digitize forms and enhance digital form functionality.
- Utilized responsive design techniques to improve user experience, prioritizing accessibility for users with disabilities. Achieved a 15% increase in user engagement because of these enhancements.

Full Stack Developer, Cognizant Technology Solutions.

Chennai, India | Aug 2020 - July 2022

- Pioneered innovative front-end development solutions in JavaScript, specifically in React JS, implementing enhancements and defect fixes.
- Guided and trained new team members, facilitating their smooth onboarding and seamless integration into the project.
- Conducted rigorous code quality reviews utilizing ESLint and Snyk to uphold and sustain 100% coding standards.
- Crafted and enacted unit test cases using Chai, Mocha, and Jest, achieving, and sustaining a commendable 95% test coverage.
- Consistently monitored application health during high-traffic periods, leveraging AWS monitoring services and SONAR, while remaining on-call. This proactive approach to monitoring and maintenance has resulted in a 20% increase in user satisfaction.
- Seamlessly integrated REST APIs with the front end using Express.js and Node.js, leveraging collaborative expertise, while ensuring low latency for optimal user experience. Additionally, utilized GraphQL to reduce the time taken to retrieve data, further enhancing performance.
- Contributed as a proactive Scrum team member, participating in planning calls, demonstrating completed functionalities to client stakeholders, efficiently prioritizing tasks, offering constructive feedback and insights, and documenting progress through one-confluence.

PROJECTS

Assignments API using Node JS: AWS, GitHub Actions, MySQL, Node JS, Postman, RESTful API

Nov 2023

- Designed and developed a scalable AWS-hosted RESTful API leveraging Node.js for Assignment Management, seamlessly integrating it with MySQL utilizing RDS in AWS. Employed GitHub for CI/CD tools and Pulumi for provisioning the AWS network infrastructure.
- Utilized auto-scaling and target groups to dynamically scale the application based on CPU utilization, while monitoring health through CloudWatch.

Health Insurance API Development using Node.js: Redis, Node JS, Postman, Elastic Search, RESTful API

Aug 2023

- Streamlined a robust Health Insurance RESTful API with Node.js, incorporating parent-child joins through queues for Elasticsearch-based search, and ensuring secure authorization via Google Identity Provider and JWT.

Restaurant Management Application: Spring Boot, JAVA EE, RESTful API, DAO, MySQL

Feb 2023

- Engineered a Rest API for a Restaurant Management application using Spring Boot and incorporating libraries such as Hibernate.
- Employed DAO (Data Access Object) for object notation, facilitating efficient storage and retrieval of data in a MySQL relational database.

Order Management Application: Java Swing, MySQL, Java SE, Object Oriented Principles

Dec 2022

- Spearheaded mail verification for customer orders, enhanced transaction security, and implemented queue functionality for order serving.
- Directed and guided the team across all stages of application development, ensuring seamless execution and high-quality outcomes.

Other Projects:

Aug 2022 - Dec 2023

- Implemented Christopher's algorithm to tackle the Travelling Salesman Problem, incorporating optimization techniques like 2-opt and 3-opt. Additionally, introduced optimizations to reduce the runtime complexity by 10%, enhancing efficiency and performance.