SRIMANTH BABU GATTAMANENI

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EDUCATION

Northeastern University,   Expected- May 2025
Master of Science in Information Systems
Relevant Coursework: Application Engineering and Development, Web Design and User Experience Engineering, Network Structures And Cloud Computing, Database Management Systems

SKILLS

Languages: C, C++, Java, Python, JavaScript, TypeScript .
Frameworks: Spring, Spring Boot, Spring MVC
Web Technologies: HTML, CSS, Bootstrap, JavaScript, jQuery, Express, Node.js, React, Redux, RESTAPI
Databases: SQL, MongoDB, Postgres, MySQL
Cloud Technologies: GCP, AWS, Docker, Kubernetes, Terraform.
Other tools: VS code, IntelliJ, Eclipse, Postman, Jira, Git, Packer, DevOps, Linux, Cloudflare

EXPERIENCE

Software Engineer   May 2022 - July 2022
Nuronics   *Hyderabad,India*

- Developed an application to manage AI-driven voice interactions, meaning-based document search, and speech recognition using React for the frontend and Node.js for the backend.
- Built a RESTAPI that receives data from Apache Kafka using NodeJS and ExpressJS. The processed data is then efficiently pushed to the dashboard, achieving a **30** percent reduction in data processing latency and ensuring high availability and scalability for data management.
- Resolved customer-reported issues and automated frontend testing using Playwright, ensuring robust application performance and reliability.

PROJECTS

Metaverse (Node.js, TypeScript, Jest, WebSocket, PostgreSQL)   October 2024

- Developed a full-stack real-time collaborative platform, increasing user engagement by **60%** through seamless avatar customization and dynamic space creation.
- Implemented a robust Node.js backend API with **95%** test coverage using Jest, reducing post-release bugs by **40%** and improving overall system reliability.
- Integrated WebSocket for real-time communication, decreasing latency by **70%** and enabling fluid user interactions within virtual spaces.
- Designed a secure user authentication system, enhancing data protection and reducing unauthorized access attempts by 80%.

Cloud-Native Web Application Deployment and Automation,   January 2024- April 2024

- Built a robust backend system for user operations using Node.js, SQL Server and Sequelize ORM.Built a Packer template to create a custom AMI which included the application artefacts and the prerequisites necessary for the deployment of application on GCP.
- Implemented comprehensive user operations including authentication with JWT tokens, email verification, and role-based access control. Integrated external APIs for transaction notifications and utilized Google Cloud Pub/Sub for event-driven processes.
- Deployed the application on GCP using Terraform for infrastructure management, with automated CI/CD pipelines via GitHub Actions. Configured load balancers, auto-scaling, and Cloud SQL integration for optimal performance and scalability.

Banking Application, (Node.js, React, REST API, MongoDB)   July 2023-August 2023

- Built a Banking Application using the MERN (MongoDB, Express, React, Node.js) stack.
- Utilized React for front end, including functionalities like user/manager authentication using JWT tokens, notifications, email verification. System admin has full access (CRUD) to all resources in the application, also integrated an external API for sending messages after each transaction.
- Implemented RESTful APIs using Node.js and Express for the backend, connecting to a MongoDB database to store data.