Sai Kumar Enagandula

Associate Software Engineer

# Professional Summary:

* Innovative and team-oriented IT professional with over 1.5 years of experience specializing in backend development with Go Lang and Java.

Adept at designing, developing, and optimizing software solutions with a focus on meeting business requirements and ensuring system scalability.

* Proficient in utilizing modern technologies such as Spring Boot, gRPC, Protocol Buffers, and cloud platforms like AWS, GCP, and Azure.
* Experienced in SDLC (Software Development Life Cycle), from requirements gathering to design, development, testing, and deployment.
* Skilled in Agile methodologies, working in Scrum environments to ensure continuous delivery and collaboration across teams.
* Proven experience in creating efficient API endpoints, database schema optimization, and implementing reliable deployment processes.
* Highly motivated to contribute to organizational growth through impactful solutions and seeking challenging opportunities for continuous personal and professional development.

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**Systems Experience & Proficiency:**

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| **Programming Language** | Go Lang, Java, JavaScript |
| **Frameworks** | Spring Boot, Hibernate, Bee go |
| **Database** | SQL, NoSQL (MongoDB) |
| **API Technologies** | REST API, gRPC, Protocol Buffers |
| **Cloud Technologies** | AWS (Lambda, S3, EC2), GCP, Azure |
| **API Testing** | Postman |
| **Version Control** | Git |
| **Project Management Tools** | Jira |
| **IDE** | Eclipse, Spring Tool Suite, Visual Studio Code |
| **Build Tools** | Maven, Gradle |
| **Operating Systems** | Windows, Linux |

# Project Experience:

## Project: AI-Driven Deployment Automation

## Client and Location: ARTINHUM

## Period: Apr 2023 – Aug 2024

**Programming Languages: Go Lang**

**Cloud Technologies: AWS, GCP, Azure**

**API Technologies: gRPC, Protocol Buffers**

**Version Control: Git**

**Deployment Automation: YAML, Git Repository**

**Orchestration: Go Lang (Backend client orchestrator)**

**Role : Associate Software Engineer**

## Project Description:

This project aimed to automate deployment processes by accepting user input in the form of voice or text, which is processed by an AI engine written in Go Lang. The AI engine generates a YAML response, validated by a schema engine, and stored in a Git repository by a configuration engine. The YAML is forwarded to a service engine, where a backend client orchestrator, implemented with Go Lang, gRPC, and Protocol Buffers, executes workflows to ensure efficient deployment procedures.

## Role and Responsibilities:

* Collaborated with stakeholders to understand business requirements and create application documents, converting them into functional and technical design documents. Involve in implementing changes and deployed the changes.
* Implemented changes and deployed them to the system.
* Created workflows and activities based on project requirements.
* Utilized gRPC and Protocol Buffers for efficient communication between system components.
* Ensured deployment procedures were streamlined and efficient.
* Evaluated and recommended tools and technologies to enhance project efficiency.
* Collaborated with team members to design and implement various project components.
* Conducted testing and debugging to ensure system reliability and performance.
* Documented the system architecture, design decisions, and implementation details.
* Provided technical guidance and mentorship to team members.
* Participated in team meetings and presented project updates to stakeholders.

## Project: Healthcare Management System (INTERNAL)

## Tools & Technologies: Java, Spring boot, MySQL

**Role: Associate Software Engineer**

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**Project Description:**

The **Healthcare Management System** project aimed to enhance patient data management and streamline workflows for better operational efficiency. The project involved designing Java backend services and optimizing schema designs, ultimately achieving a 15% improvement in efficiency. The use of Java technologies enabled the creation of efficient API endpoints and data management solutions, improving the overall operational workflow.

**Role and Responsibilities**

* Developed API endpoints for managing user data, appointments, and consultant availability. Implemented Page Object Model, Hybrid framework for different web pages
* Led schema design for key entities like patient data and appointments to ensure accuracy and efficiency.
* Optimized database queries to improve performance and reduce response time.
* Integrated third-party services for appointment scheduling and notifications.
* Conducted unit and integration testing to ensure the quality and reliability of the backend services.
* Managed database migrations and version control using Hibernate and MySQL.
* Worked with front-end teams to ensure seamless integration between the backend and UI components.
* Monitored system performance and resolved any performance bottlenecks or issues.
* Participated in code reviews to maintain code quality and adherence to best practices.
* Documented API endpoints, database schema, and system architecture for future reference and team collaboration

# Achievements and Awards:

* Awarded with the best performer title for exceptional contribution to the project.

# Education:

* Bachelor of Technology in **Electrical and Electronics Engineering**, Guru Nanak Institute of Technology, Affiliated to **JNTU -Sept 2020**