Sai Chaitanya Aluru

Senior Software Engineer

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SUMMARY

Experienced Java Spring Boot Developer adept in Postgres DB, AWS Cloud Services, WebSocket Protocol, REST API, Microservice architecture, and React JS. Proven ability to optimize system performance through advanced algorithms and robust data structures. Seeking roles where I can apply my full-stack development skills to drive business growth. Collaborative problem-solver passionate about enhancing user experiences. Committed to staying current with emerging technologies to deliver cutting-edge applications.

SKILLS

- **Languages**: Java, Python, Golang(Go), JavaScript, C, SQL
- **Technologies**: J2EE, Servlet, JSP, JDBC, Web Services Restful, Log4J, Swagger, Jira
- **FrameWorks**: Spring Boot, Hibernate (ORM) 3.0/4.0, ReactJS, Flask, Grom
- **Servers**: Apache Tomcat, Netty, Nginix
- **Tools**: Maven 3.0, JUnit, Postman, IntelliJ, Vim, Sublime Text 2/3, Visual Studio Code, Git
- **Container Technologies**: Docker, Kubernetes, Helm
- **Data Bases**: Postgres, Neo4j, Redis, AWS S3
- **Messaging Technologies**: Mqtt(IoT), Redis messaging Que, Kafka(learning)

EXPERIENCE

- **LionsBot India Pvt Ltd**   Chennai, India
  Senior Software Engineer   *June 2023 - Present*
  - **Email-Reports**: Developed a Spring Boot microservice for executing custom SQL queries, accommodating user-specified time zones. Architected a Python Flask microservice to generate PDF reports, integrating with AWS S3 for secure storage. Created a JavaScript AWS Lambda function to automate report email delivery via SQS, leveraging Amazon SES for personalized delivery based on user preferences. Enhanced system efficiency and user satisfaction by optimizing report delivery across different time zones.
  - **Authentication-Authorization**: Developed an internal authentication (JWT) and authorization (Object-access) microservice for an employee management system using the Go programming language (Golang). This service ensures secure access control and user authentication within the organization's infrastructure.
  - **Robot-Activation**: Developed a microservice (Golang) for robot activation and deactivation functionality by using MQTT, Websocket, and cron invokes as per organization requirements.
  - **Real-Time Robot Status Update**: Led the overhaul of a legacy Websocket server service, enhancing its capabilities in delivering real-time robot status updates to clients. Translated Robot MQTT messages into websocket messages, ensuring seamless communication and providing clients with up-to-the-minute information on robot status.
  - **Pdf generation microservice**: Managed a junior team in revamping the PDF generation service for reports. Conducted thorough analysis of existing processes and technologies to identify areas for improvement. Guided documentation of project objectives, timelines, and deliverables. Facilitated regular progress review meetings and managed merge requests to ensure alignment with project goals.
  - **Screen Mirroring Application**: Contributed to a proof-of-concept (POC) project integrating a robot touchscreen interface into the technician support portal. Collaborated on planning, analysis, and documentation phases, ensuring alignment with stakeholder expectations. Facilitated progress tracking through meetings and merge requests, supporting effective decision-making for successful integration.
  - **On-Call Engineer**: Demonstrated exceptional commitment and leadership as the on-call roster engineer for an extended period, showcasing my ability to consistently manage and optimize engineering operations. This experience has honed my organizational skills, resilience, and capacity to excel in demanding and dynamic work environments.
  - **Front-end**: Provided extensive front-end support using ReactJS, covering troubleshooting, feature enhancements, and UI/UX improvements. Collaborated with the development team to integrate React components seamlessly and maintain application consistency. Contributed to front-end performance optimization and implemented best practices to elevate the overall user experience.

- **LionsBot International** — Remote, Singapore
  Software Engineer — *Nov 2021 - June 2023*
  - **Authorization**: Developed a middleware service using Spring Boot and a Graph database to enable robust authorization checks, ensuring that authenticated users have the appropriate access to specific objects within a shared environment. This system supports LionsCloud, a multi-tenant platform serving various dealers and cleaning contractors with their distinct data requirements.
  - **OTA-Over The Air Update**: Created a microservice using Spring Boot in conjunction with AWS MQTT service, designed to efficiently manage and control the version updates for robots. This service caters to end users, administrators, and engineers, streamlining the update process for enhanced functionality.
  - **Public-API**: Designed and implemented an API Gateway Service tailored to client companies, offering streamlined REST responses. Utilized Spring Boot to deliver reactive REST APIs, enhancing the responsiveness and efficiency of the system.
  - **Reports-Service**: Enhanced an existing service as a part of a major revamp to version 2. This service is primarily responsible for processing report data and generating PDF reports, and it was originally built using the Python Flask framework.
  - **User preferences**: Enabled multilingual support in the Flask PDF generation service for dynamic PDF document generation in multiple languages. Maintained user language and unit preferences seamlessly across the cloud infrastructure. Collaborated on integrating language selection and unit preference features to enhance user experience. Updated the system to accommodate new languages and units, ensuring consistent localization across the platform.

- **LionsBot International** — Remote, Singapore
  Backend Engineer(Contract) — *Apr 2021 - Oct 2021*
  - **Certificates-Service**: Developed a comprehensive service to manage technician certifications obtained through robot training. This service dynamically handles various levels of knowledge, associating them with specific certifications. Administrators are empowered to sign and publish or revoke certificates as needed digitally. Additionally, users can conveniently download their certificates in PDF format, making it a versatile solution for certification management.
  - **Maintenance and Support**: Diligently providing ongoing maintenance and support for a diverse range of services built with Java using the Spring Boot framework, as well as Python-based services using Flask. These services interact with various databases, including Postgres and Redis. Continuously addressing new feature implementation and resolving bug fixes as per the evolving sprint requirements.

- **Freelance** — Rome, Italy
  Java Developer — *Dec 2020 - Mar 2021*
  - **File Service**: Designed and implemented a Spring Boot middleware solution to seamlessly manage files on AWS S3 Bucket. Developed features for uploading, retrieving, deleting, and updating files while enforcing client-specified file formats and size limits. Implemented pre-signed and temporary URLs for file access, ensuring precision and security. Collaborated with stakeholders to optimize file management processes and enhance system efficiency, meeting functional and non-functional requirements.

- **Freelance** — Rome, Italy
  Backend Developer — *Feb 2020 - Sep 2020*
  - **Farmacy**: Developed and maintained a comprehensive Monolith service for Pharmacy store management within a backend team, focusing on core functionalities including user management, authentication, promo code handling, stock management, medicine type management, and billing. Leveraged Spring Boot (Java) to implement middleware solutions tailored to meet project requirements. Collaborated with senior team members in the design and architecture phases, ensuring alignment with project objectives. Actively contributed to the implementation of key features, addressing user needs and business requirements. Engaged in stakeholder discussions to gather requirements and provide technical insights. Through diligent teamwork, contributed to the successful delivery of a robust backend solution for Pharmacy store management.

EDUCATION

- **42 Roma Luiss** — Rome, Italy
  Computer programming school — *Jan 2020 – Dec 2020*

- **Amrita University** — Amritapuri, India
  Bachelor of Technology in Mechanical — *June 2013 – May 2017*