Sujit Jayaraj

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Objective

Software developer with expertise in Java, specializing in cloud development on Amazon Web Services. Skilled in building RESTful APIs and containerization. Proficient in application development using Spring framework. Excels in SQL and NoSQL database management with a strong foundation in big data technologies. Seeking opportunities to leverage this diverse skill set to drive innovation and deliver solutions.

Education

Master of Engineering in Computer Science August 2019 – May 2021
University of Cincinnati Cincinnati, Ohio, USA
Coursework: Advanced Algorithms, Learning Probabilistic Models, Database Theory, Operating Systems, Parallel Computing, Software Testing and Quality Assurance.

Bachelor of Technology in Computer Science August 2015 – May 2019
Manipal Institute of Technology Manipal, Karnataka, India
Minor: Networking and Cryptography
Coursework: Data Structures, Object Oriented Programming in Java, Formal Languages and Automata Theory, Computer Networks, Information Security, Microprocessors, Compiler Design, Consumer Electronics.

Skills

Programming and Scripting Java, Structured Query Language (SQL), Bash shell scripting.

Tools and Technologies Amazon Web Services (AWS), Microsoft Azure, Maven, Git, Docker, Kubernetes.

Frameworks Spring Boot, Spring REST, Spring MVC, Spring Cloud, Hibernate, JUnit, Mockito, Selenium.

Big Data Apache Spark, Kafka, Hadoop.

Databases MySQL, PostgreSQL, MongoDB.

Work Experience

Software Engineer August 2022 – Present
Innvendt Insights Inc. Bengaluru, KA, India

- Worked on the Convergent Electric Grid Monitoring and Analysis (CEGMA) platform, integrating Earth E5 IoT sensors with services such as AWS IoT Core and Kinesis to enable real-time data processing and device-communication.
- Designed and implemented scalable microservices using Java leveraging API Gateway to build security and highly available APIs.
- Reduced latency in data processing by 30% by integrating edge computing capabilities using AWS IoT Greengrass, enabling offline processing and real-time anomaly detection.
- Worked with UI Engineers to develop real-time electrical grid monitoring dashboard, improving fault detection response time by 40%.

Research Assistant July 2021 – July 2022
University of Cincinnati Cincinnati, Ohio, USA

- Part of the Provenance Unification through Graphs (PUG) development team of 6 members, specializing in data derivation and provenance analysis, aimed at enhancing data quality and reliability.
- Leveraged PUG to generate practical explanation for real world datasets and queries. Conducted data derivation analysis to provide insights into query results.
- Applied expertise in C++, Shell scripting, and PostgreSQL to develop a middleware system for unified provenance computation that improved computational time by 30%.
- Enabled effective debugging of data processing pipelines, leading to enhanced data quality, informed decision making, and improved reliability in data processing.

Projects

Customer Relationship Management (CRM)

Implemented a Customer Relationship Management software with roles named employee, manager, owner and admin allowing reduction in data access time and enhanced employee productivity by developing city specific client search feature using Java 21, Spring Boot, Spring MVC, Spring Data, Spring Security, Hibernate, JUnit, MySQL and Git.

Instakilo

A clone of the popular social media platform Instagram developed using Java Spring Boot for the backend and React framework for the frontend. Performs JSON Web Token (JWT) based authentication and allows users to post, comment and like other posts as well as follow other users. Stores data using MySQL database.

Certifications

- Building a Natural Language Processing (NLP) solution with Azure AI Language from Microsoft.
- Building an Azure AI Vision solution from Microsoft.
- MongoDB Certified Associate Developer from MongoDB.