Bala vamsi Maragani

Sr. Full- Stack Java Developer | AWS Certified | Jersey City, NJ | (757) 757-4319 | maragani.dev@gmail.com | LinkedIn | GitHub

SUMMARY

- 5+ years of IT experience as a **Sr. Full Stack Java Developer** in developing Full-Stack Applications and scalable applications across diverse domains including Pharma, Banking & Financial Services, and Retail/E-commerce, using **Java/J2EE** technologies.
- Full-stack development expertise with modern **JavaScript** frameworks and libraries such as **ReactJS** (16+), **Angular** (8/9), **TypeScript**/ES6+, **Node.js**, **Material UI**, and **Redux** for building interactive user interfaces.
- Hands on experience on **Java**, **J2EE** and web applications using **Struts**, **Spring**, **Core Java**, **Servlets**, **JSP**, **XML**, **JDBC**, **HTML**, **JavaScript**, **CSS**, **AJAX**, **jQuery**, **AngularJS**, **Angular** 2/6/10, **NodeJS**, **Bootstrap**, **Hibernate**, Web services (SOAP, Restful), **RDBMS**.
- Proficient in implementing **OOPs** and **Core Java concepts** including **multithreading**, **exception handling**, **collections**, **serialization**, **file handling**, **JDBC**, and design patterns, with proven experience in developing secure, efficient RESTful APIs.
- Successfully migrated legacy monolithic applications into modern, **containerized microservices** architectures using **Spring Boot**, **Docker**, **Kubernetes**, and implemented robust service discovery and centralized configuration with seamless **CI/CD** integration.
- Hands-on experience in building scalable backend applications using Spring Boot modules (Spring MVC, Spring Data JPA, Spring Security, Spring WebFlux, Spring Batch), **Hibernate** ORM, and asynchronous messaging with **Apache Kafka** and **RabbitMQ**.
- Experienced in Agile/Scrum development, test-driven development (**TDD**), and DevOps workflows including Jenkins pipelines, Lightspeed Harness, GitHub Actions, Docker, and Kubernetes.
- Proficient in applying **Design patterns** such as Singleton, MVC, Observer, DAO, and Decorator in system design and architecture.
- Well-versed in the complete Software Development Life Cycle (**SDLC**) including requirement analysis, design, coding, testing, deployment, and maintenance, using **Agile** methodologies.
- Integrated **Apache Druid** into analytical pipelines to support real-time, low-latency querying of large datasets, enabling near-instant insights for user activity and system monitoring dashboards.
- Strong database skills with experience in relational and **NoSQL** databases like **MySQL**, **PostgreSQL**, **Oracle**, **MongoDB**, and **Redis**.
- Proficient in Database concepts such as schema design, transactions, indexing, PL/SQL, triggers, and stored procedures.
- Strong hands-on experience with **AWS** services **IAM**, **EC2**, **S3**, **Lambda**, **CloudWatch**, **CloudTrail**, **SQS**, **SNS**, and **Autoscaling**.
- Good exposure to cloud databases and data warehousing solutions like **AWS Aurora**, **Redshift**, **DynamoDB**, and **RDS**.
- Worked with the **NoSQL** Database like **MongoDB** to manage extremely large data sets.
- Solid programming experience in Java for backend, **REST API**, and developing serverless applications using **AWS Lambda**.
- Experience using version control systems like **Git**, **Bitbucket**, SVN, and CVS.
- Skilled in working with modern **IDEs** like IntelliJ IDEA, Spring Tool Suite (STS), Eclipse, and Visual Studio Code.
- Familiar with ELK Stack (**Elasticsearch**, **Logstash**, **Kibana**) for monitoring and logging in distributed environments.
- Strong hands-on experience **Azure** services including VMs, Blob Storage, Cosmos DB, Azure SQL, Key Vault, and Azure Functions.
- Proficient with automation and API testing using **Postman**, **Swagger** and continuous code quality analysis using **SonarQube**.
- Expertise in writing unit and integration test cases using **JUnit5**, **Mockito**, and **SOAP UI** with both TDD and BDD approaches.
- Implemented end-to-end CI/CD workflows using **Jenkins** pipelines, **Docker** registry integration, **Kubernetes** orchestration, and microservices deployments in cloud and hybrid environments

TECHNICAL SKILLS

Languages: Java 8, Java 17, Python, JavaScript (ES6+), TypeScript, SQL, PHP.

Java/J2EE Technologies: JSP, Servlets, JDBC, Hibernate, JSF, JMS, Struts 2.x, Web Services

Frontend Development: ReactJS, AngularJS, HTML5, CSS3, Bootstrap, Tailwind CSS.

Backend Development: Spring Boot, REST/SOAP APIs, Spring boot, Spring Data JPA, Spring security, Python, Flask.

Database Management: MySQL, PostgreSQL, Oracle, Redis, MongoDB, H2.

DevOps/CI/CD: Docker, Jenkins, Kubernetes, Git, GitHub Actions, Azure DevOps, OpenShift, Harness.

Cloud Platforms: AWS (EC2, S3, RDS, Lambda), Azure (App Services, VMs, Blob Storage), Google Cloud Platform.

Testing: Junit5, Mockito, Selenium, Postman, Swagger.

Messaging Queues: Apache Kafka, ActiveMQ.

Security: OAuth, JWT, SSL/TLS, Data Encryption, Web Security Protocols.

Project Management : Agile methodologies, Scrum, Kanban, JIRA, Confluence.

Design & Architecture: Microservices architecture, MVC, Design Patterns, UML, Serverless Architecture.

PROFESSIONAL EXPERIENCE

Client: Daiichi Sankyo
Location: Basking Ridge, NJ, USA
Sr. Full-Stack Java developer   **Mar 2025 – Current**

- Involved in the full software development life cycle(**SDLC**) from gathering requirements to building, testing and maintenance of the application depending on the business using **Agile** methodologies.
- Developed robust backend services using **Java 17, Spring Boot**, **Spring Web**, **Spring Data JPA**, **Hibernate**, and **Apache Kafka** for asynchronous messaging and real-time data processing.
- Built dynamic and responsive frontend interfaces using **ReactJS**, implementing reusable components, React Hooks, and Context API for state management, enhancing user interactivity and UI performance.
- Used **ReactJS** to implement rich functions in various pages: form validation, crud, grid list, search, sort, pagination, multi-selection, tags-input, advanced/custom directives, authentication, unit tests, etc.
- Created custom filter in **ReactJS** in the application and developed the rich **UI** components in Optimizely.
- Used **ES6** and **JSX** with react for component development with **ReactJS**.
- Maintaining Parent and child elements by using State and Props in **ReactJS**.
- Developed 20+ RESTful APIs using Java 17, applying core Java features like **Multithreading**, **Streams API**, **Parallel Streams**, **Lambda Expressions**, and **Functional Interfaces**, enhancing backend efficiency and delivering smoother user experience.
- Utilized **Docker** and **Kubernetes** for **containerization** and **microservices orchestration**, facilitating **CI/CD** pipelines that reduced deployment time and enabled real-time system scaling.
- Optimized backend performance by utilizing **asynchronous programming** and database techniques in **PostgreSQL** and **MongoDB**, minimizing data retrieval times and enhancing overall system efficiency.
- Led data security and compliance initiatives, implementing encryption protocols and **JWT**-based authentication to safeguard user information in alignment with HIPAA, GDPR, and CCPA regulations.
- Applied Test-Driven Development (**TDD**) methodologies to ensure code reliability and reduce errors by 20%, significantly improving the overall quality of deliverables.
- Involved in cross platform Validation and **Exception Handling** policies.
- Maintain consistency of **front-end** via code over a variety of browsers.
- Used JIRA to track the bugs/ issues. Involved in SCRUM and **AGILE** meetings to discuss the status of the project.

Client: Citi Group
Location: Rutherford, NJ, USA
Full-Stack Java Developer   **Aug 2023 – Feb 2025**

- Developed 10+ RESTful APIs to handle CRUD operations using **Java 17**, **Spring Boot**, **ORM tools** (**Hibernate**) with **SQL** Databases.
- Designed and developed Hybrid-Single Page Application using **Spring MVC**, **Angular 14**, **HTML5**, **Bootstrap**, **CSS3** and **JavaScript**.
- Collaborated with UI/UX to support **Angular** and database teams to automate 70+ user lifecycle processes with **sync** jobs.
- Leveraged **Apache Kafka** for event payloads, data communication between **microservices**, email notifications, and system logs.
- Integrated **JMeter** for load testing and **SonarQube** to maintain 80% code coverage and enforce coding standards.
- Involved in the implementation of DAO using **Spring-Hibernate ORM**, involved in creating the **Hibernate POJO Objects** and mapped using Hibernate Annotations
- Employed **Spring Batch** for efficient handling of large file processing, ensuring high performance in batch-oriented workflows.
- Enhanced the **ERM** application performance by 60% utilizing **Redis Cache**, **ehcache** and **DB indexes** handling concurrent users.
- Utilized **Apache POI** to programmatically generate Excel, Word, and PowerPoint reports, enhancing deliverables shared with Product Owners and Business Analysts.
- Worked with **MySQL** and **PostgreSQL** as core relational databases, schema design for scalable back-end operations.
- Migrated **CI CD** pipelines from **Jenkins** to **Lightspeed** and **Harness**, reducing build times and improving deployment success rates.
- Spearheaded the deployment of **containerized** applications on the **OpenShift** platform by leveraging **Docker**, **Kubernetes**, and **CI/CD** pipelines with **Jenkins** and **Lightspeed Harness**. Achieved 99.9% uptime by implementing **DevOps-driven** workflows.
- Documented deployment steps, version releases, feature logs, test cases, code quality reports, **CI/CD** pipeline details, and commit histories comprehensively on Confluence.
- Maintained 80%+ code coverage using **SonarQube**, enforcing high-quality coding standards.
- Used **Postman** extensively to validate **REST API** endpoints and perform end-to-end testing of all application layers.
- Designed and coded application concepts in an **Agile/TDD** environment using test driven development.

Client: Dakota State University
Location: Madison, SD, USA
Full Stack Developer   **Jan 2023 – Aug 2023**

- Developed a **MERN** stack (**MongoDB**, **Express.js**, **ReactJS**, **Node.js**) web app with **AWS** Code Pipeline and deployed it on **AWS EC2** with 90% downtime reduction. Implemented monitoring using **Amazon CloudWatch** and **AWS CloudTrail**.
- Employed **HTML5**, UTF-8 encoding, **CSS** (external, embedded, inline), **JavaScript**, and **TypeScript** for enhanced functionality.
- Utilized **Amazon S3**, **Amazon Document DB**, **AWS CloudFront** for optimized content delivery performance.
- Design, develop, and implement **Python**-based applications that meet business requirements and performance goals.
- Write clean, efficient, and maintainable code following best practices and design patterns.
- Involved in Developing a Restful service using python Flask framework.
- Excellent Experience on various Python integrated IDE's such as Sublime Text, Pycharm, Eclipse and NetBeans.
- Experience in working on various python packages such as NumPy, SQL Alchemy, Pyside, SciPy, and PyTables.
- Collaborate with cross-functional teams to understand requirements, propose solutions, and deliver high-quality software.
- Preferred experience with **UI** integration and interfacing with **ReactJS**.
- Designed a **Flask**-based blog application with user authentication using **Python** v3, leveraging **SQLite** v3 and distributed storage for efficient CRUD operations and seamless **REST API** integration.
- Participate in code reviews, design discussions, and technical meetings to ensure code quality and adherence to architectural standards. Troubleshoot and debug issues, resolving technical challenges efficiently.
- Applied strong computer science principles to integrate front-end web pages with **HTML5**, **CSS3**, **XML**, and **JavaScript** (**ES6**) to provide a seamless user experience, rigorously ensuring robustness and reliability through unit testing with **JUnit5** and **Mockito**.

Client: Canadian Tire Corporation
Location: Brampton, ON, CAN
Backend Developer/ Java Developer   **Feb 2021 – Dec 2022**

- Employed e-commerce platform by harnessing **SAP Hybris Commerce** Accelerator for **B2C** business models using **J2EE** technologies (SAP Hybris, Spring Data JPA, Spring MVC, Hibernate, JDBC, JavaBeans) for backend development.
- Developed 30+ **REST APIs** with **Core Java SE 11** features such as **Multithreading**, **Parallel Streams**, **Streams API**, **Functional Interfaces**, and **Lambda Expressions** by leveraging computer science concepts for smoother user experience.
- Ansible and **Docker** for Build, deploy, continuous integration to help developers work in an **Agile** environment.
- Developed **POJO objects** and used **Hibernate** as the **ORM** tool to access the persistent data from **SQL** Server.
- Consumed messages from **JMS**-Message driven **beans** and **Active MQ**, integrated the services with **Beans**.
- Leveraged **Log4j** and **SLF4J** for **logging**, **Swagger**, **Postman**, **Kibana logs**, **Dynatrace**, and browser consoles for root cause analysis and instantly provided bug fix while working as a production support specialist in a fast-paced environment.
- Designed and scheduled **cron jobs** with **multithreading** and custom **exception handling** to process time-sensitive tasks, detect fraudulent transactions, and clean up obsolete data for improved system reliability.
- Implemented the following **J2EE Patterns**: Front Controller, Session Façade, Service Locator, Data Access Object, Business Delegate, Business Object, Composite View and View Helper.
- Designed, developed, implemented, and maintained custom **Ant** tasks in **Java** and **Groovy** Experience in **Microsoft Azure Cloud Computing** development and support.
- Developed the service where **Microsoft Azure** storage is used to store the **blob** files.
- Developed the **Azure Active Directory (**AAD) **authentication** and **OAuth authorization** for API security.
- Proficient in IntelliJ IDEA, achieving 90%+ code coverage with **JUnit5** and **Mockito**.
- Produced 200+ pull requests using **GitHub**, **Git** command line, and **SourceTree**.
- Worked on **Azure** pipelines for **CI/CD** configurations.
- Developed test classes in **JUnit** for unit testing.
- Experienced with **Jira** for **Agile/Scrum** and Confluence for project management and documentation.

Client: Omkara
Location: Vijayawada, AP, IND
Software Development Engineer   **Mar 2020 – Jan 2021**

- Initiated and led analysis of business sales, distribution, and marketing needs, planned budget and maintenance strategy for long-term handover to non-technical users.

- Developed a Spring boot application with **Java8** for backend and **Angular**, **HTML**, **CSS**, and **JavaScript** (**ES6**) for front-end.
- Developed dynamic web pages using **HTML**, **CSS**, **JSP**, **JavaScript**, **jQuery** for designing the UI for building Monolithic applications.
- Deployed full-stack application on **AWS** using **S3** buckets, **EC2** instances, and subnets while collaborating with Agile team.
- Used **JMS** (Java Messaging Service) API to mail notifications upon success or failure when the backend processes are completed and to send mail notifications regarding any system-related problems.
- Integrated Razorpay for secure online payments, **Twilio** for OTP verification, and **Amazon SNS** with **JMS** for automated order and delivery email notifications.
- Configured **JBOSS** Application server and used **Oracle** database with **Hibernate ORM framework** and used the functionalities of **Hibernate** second level **Ehcache.**
- Used **Spring WebFlux** for reactive programming and implemented **Swagger API** documentation for API testing and clarity.
- Implemented business process, database retrievals, access information and **User Interface** using **Java**, **Struts**.
- Hands-on writing **Stored Procedures**, **functions**, **triggers**, **DDL**, **DML** SQL queries.
- Created SQL queries, **PL/SQL** Stored Procedures, Functions for the Database layer by studying the required business objects and validating them with Stored Procedures using **DB2** and Promoting DML scripts to **DB2**.
- National level complex problem-solving competition, using **JAVA**, **Data Structures**, and **Algorithms**.
- Involved in generating JAXB classes from schema files.
- Used mocked test card numbers and temporary email accounts to simulate and validate user behavior, detect fraudulent transactions, and ensure secure flows.
- Collaborated with the stakeholders to develop a website, resulting in a more than 30% increase in sales and profits.

PROJECTS (Feel free to visit my GitHub for more projects)

Checklist Application
- Built using **Spring Boot 3** (**Java 17**) with **Spring Data JPA**, **Lombok**, and **Swagger** for **REST API** development.
- Frontend developed using **HTML5**, **CSS3**, and **JavaScript** (**ES6+**) with Fetch API for async requests.
- Supports **CRUD** operations, task search, client-side form validation, and versioned task updates.
- Includes strikethrough **UI** for completed tasks and testing with **JUnit**, **Postman**, and **ESLint**.

Spring Boot AI Chat API with Ollama
- A scalable **Spring Boot** application using **Spring AI Ollama** to deliver real-time **AI**-driven text generation via **REST APIs**, supporting both standard and streaming responses with locally hosted models in a production environment.
- Technologies used: **Spring Boot**, **Spring AI**, **Ollama**, **Java 17**, **REST APIs**, **Maven**, **Swagger**, **Postman**, and locally hosted **AI models**.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- SAP Cloud Commerce v2 1905 (Hybris)
- Google Data Analytics Professional
- Programming in Java
- Microsoft Certified Azure Fundamentals
- Scrum Fundamentals Certified (SFC™)
- Microsoft Office Specialist: Microsoft Office

EDUCATION

- Dakota State University, Madison, SD   Master of Science in Computer Information Systems
- Lakireddy Bali Reddy College of Engineering, India   Bachelors of Tech. in Computer Science and Engineering