

IVAN ZIMBE

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SOFTWARE ENGINEER

Motivated Software Engineer with over 6+ years of hands-on experience specializing in managing the development of scalable enterprise software applications within Agile/Scrum environments in IT. A dedicated problem-solving professional known for swiftly diagnosing and resolving complex technical issues to elevate code quality and enhance application performance. Adept at collaborating with cross-functional teams to deliver innovative software products. Seeking to leverage lean software development, leadership and technical acumen to drive impactful projects in a dynamic environment and organization.

CORE SKILLS

Java programming • Spring/Hibernate • System Architecture • Project Management • Data Structures • Algorithms Analysis • Design Principles and Patterns • Microservices • REST API • Object-Oriented Programming (OOP) • Event Driven Architecture

Programming language: Java

Web: JavaScript, React, AJAX, HTML 5, CSS 3, Bootstrap, Apache Tomcat, AWS

Web services: SOAP, REST

Frameworks: Spring, Hibernate, React, Spring Boot, Node.js, Express, Spring Cloud

Database technologies: PostgreSQL, MySQL, MongoDB

Software Development Lifecycle: Agile / Scrum, Waterfall, Kanban, Requirements gathering, Analyzing, Designing, Coding.

Architecture/Design Patterns: Microservices, SOA, Distributed Systems, MVC, DAO, Singleton, Abstract Factory, Dependency Injection.

Tools: Maven, Git, Eclipse, Docker, JUnit, Mockito, Visual Studio, IntelliJ

PROFESSIONAL EXPERIENCE

UGANDA ELECTRICITY GENERATION CO. LTD, Kampala, Uganda

August 2017- March 2023

Control Systems Engineer: Designed and develop end-to-end Java-based applications.

- Successfully led end-to-end development and optimization of dynamic Java applications within Agile/Scrum framework, consistently delivering projects on time and within budget.
- Implemented version control using Git and Maven, maintaining code integrity and enabling seamless collaboration among cross-functional teams.
- Architected and implemented RESTful Web Services with Spring Framework and Hibernate ORM, resulting in an improvement in backend operational efficiency and a 15% reduction in response times.
- Pioneered the creation of dynamic web applications using React, Node.js, and Bootstrap, enhancing user engagement and interaction, leading to a 30% increase in user satisfaction.
- Demonstrated expertise in automation and system enhancement, utilizing Java to construct control systems for Supervisory Control and Data Acquisition (SCADA), resulting in a 20% improvement in industrial process efficiency and a 20% reduction in downtime.
- Engineered a scalable, distributed real-time data processing system using Kafka and Kubernetes, achieving seamless handling of large datasets, reducing data processing times by 30%.
- Collaborate closely with UX / UI designers to craft intuitive, user-friendly web interfaces with React and Bootstrap, resulting in a 25% increase in user interaction and engagement.
- Spearheaded automated testing efforts using Mockito and Postman in coordination with the QA team, ensuring software quality and reliability, reducing the defect rate by 20%.
- Designed and maintained relational databases (e.g., MySQL, PostgreSQL) to optimize database performance, database management achieving an improvement in database query efficiency (SQL queries) and a 20% reduction in query response times.

Technologies Used: Java, Spring, Spring MVC, Spring Boot, Spring Data JPA and Spring Cloud Services, Microservices, RESTful Webservices, JavaScript, HTML, CSS, Bootstrap, CI-CD (Jenkins), Docker, Amazon Web Services, MySQL, PostgreSQL, MongoDB, VSCode, Swagger APIs, Apache Kafka, Apache Wicket, JIRA, IntelliJ, Windows, Mac OS

VS HYDRO PVT LTD, Nairobi, Kenya
Control Systems Engineer

October 2016 – July 2017

- Developed and ensured software performance as a technical team member.
- Conducted proactive technical troubleshooting and rigorous testing of software in production environments, resulting in a 5% reduction in critical system failures and enhancing overall reliability.
- Played a pivotal role in code reviews, contributing to an improvement in code quality and adherence to best practices and coding standards.
- Lead development and deployment of Microservices using the Spring Boot framework, optimizing system performance, reducing response times by 10%, and achieving an increase in scalability for a supervisory control and data acquisition system.
- Consistently delivered clean, efficient, and maintainable code in Java, Node.js, and JavaScript, ensuring a reduction in post-release defects and software sustainability.
- Fostered seamless collaboration with cross-functional team members, cultivating a knowledge-sharing culture and staying updated on emerging technologies, resulting in the successful integration of cutting-edge tools and frameworks to drive innovation and deliver optimal technical solutions.
- Implementation of effective troubleshooting and performance tuning methods, utilizing Run Time Analysis, SQL Trace, Dynatrace, Splunk Queries, Kibana Elasticsearch, Developer Code Inspector, and advanced code optimization and modular techniques to enhance application performance.

Technologies Used: HTML, CSS, Bootstrap, JavaScript, Node.js, Java/J2EE, MySQL, MongoDB, VSCode, IntelliJ, Microsoft Windows, Spring, Spring MVC, Spring Boot, Spring Data JPA, nginx, hystrix, Netflix Zuul and Spring Cloud Services, Spring WebFlux, Microservices, Kafka, Redis Cache SaaS, RESTful Web development, Grafana and Prometheus, React.

EDUCATION

Master of Science in Computer Science

January 2023 – December 2024

Maharishi International University, Fairfield, Iowa

Key Courses: Fundamentals of Programming Practice, Modern Programming Practice, Algorithms, Web Application Programming, Enterprise Architecture, Software Architecture.

Bachelor of Science in Electrical and Electronics Engineering

January 2010 – July 2014

Makerere University, Kampala, Uganda