SAMWEL BABALA

Fairfield, Iowa 52557 • 779-270-4717 • babala.samwel@gmail.com
https://www.linkedin.com/in/samwel-babala

FULL STACK JAVA ENGINEER

Experienced full-stack software engineer with 10+ years of experience building scalable and reliable systems with Java, PHP, and Spring Framework ecosystem. Proven ability to design and implement efficient software architectures, lead teams to deliver high-quality solutions, and use technology to solve complex problems in a variety of domains, including identity verification systems, financial systems, educational systems, and system integrations. Passionate about continuous learning and contributing to innovative projects.

● Microservices ● Backend Development ● Object Oriented Programming (OOP)
● SDLC ● Design Patterns ● System Architecture and Design ● Web Development ● DevOps

Languages: Java, PHP, Typescript
Web: HTML, JavaScript, CSS, jQuery, Bootstrap, NodeJS, ReactJS
Web Services: REST, SOAP, GraphQL, Microservices
Web/App Servers: Nginx, Tomcat, Apache
Frameworks: Spring (MVC, Boot, Security, Data, AOP, DI, Cloud), Hibernate, JPA, Express, Symfony, Angular, Quarkus, Micronaut
Databases: MySQL, PostgreSQL, MongoDB, Elasticsearch
Design Patterns: MVC, Singleton, Prototype, Observer, Session, Strategy, Command, Builder, Factory, Facade, Adapter
SDLC: Agile, Waterfall
Tools: Maven, Gradle, InteljIDEA, Eclipse, PHPStorm, VSCode, WebStorm, Jenkins, Git, GitHub, Kibana, Grafana, Prometheus, Composer, Jira
Platforms: MacOS, Linux, Windows, AWS, Digital Oceans, Linode, Android

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PROFESSIONAL EXPERIENCE

CAREER NOTE: *Completed on-campus studies and currently taking distance education courses to complete a* **Master's Degree in Computer Science** *(Available for full-time, W-2 employment).*

IDTECH HOLDINGS, Dar es Salaam, Tanzania • 05/2021 – 04/2023
Building self-sovereign identity in emerging markets while addressing KYC due-diligence needs of service providers.

Sr. Software Engineer, Technical Lead
Designed, built, and maintained multiple systems.
- Created and maintained CI/CD deployment pipelines to automate repeatable tasks, such as code building, testing, and deployment, improving efficiency and reducing errors.
- Designed and improved new and existing systems architecture utilizing AWS, Linode, Docker and Portainer, optimizing applications high availability, scalability, and cost-effectiveness.
- Led a team of software engineers to deliver high-quality technology solutions.
- Provided timely and constructive feedback by reviewing developers' code, helping them to improve their skills, leading to an improvement in systems quality and reduction in reported issues by approximately by 35%.
- Collaborated with other cross-functional teams in the company to build the company's digital strategies, resulting in optimized resource allocation and enhanced operational efficiency.
- Trained new developers on CI/CD best practices and how to use Docker containers to develop and deploy applications, which ensured speeding them up to start contributing to the team.

Technologies Used: *Java, Spring, PHP, JavaScript, jQuery, Jenkins, Linux, Git, MySQL, HTML, CSS, Jira, Bitbucket, GitHub, Docker, Portainer, Nginx, NginxProxyManager, DockerHub, Artifactory, AWS (EC2, RDS, Rekognition, Amazon Textract, IAM, Route53, Amplify), OpenLDAP.*

AIMGROUP, Dar es Salaam, Tanzania ● 04/2016 – 05/2021
A full-service Digital Media Agency with a focus working with forward thinking brands & clients to build a holistic digital strategy from social media to web to mobile.

Sr. Software Engineer and Architect
Architect, Senior Software Engineer and Team lead
- I contributed to building processes using effective strategies to efficiently manage the development process within the team, resulting in streamlined workflows and increased productivity by approximately 40%.
- I led the technical team, employing problem-solving techniques, to find optimal solutions for various challenges encountered in the software development process, leading to improved efficiency and successful project outcomes.
- Assisted in configuring the development environment to closely match the production using Docker and Portainer, allowing developers to focus on the coding part more than the environment.
- Mentored junior and mid-level developers to improve their skills and efficiency, while fostering the culture of knowledge sharing, continuous learning and improvement.
- Collaborate with cross-functional teams within the company to establish operational specifications to ensure efficiency in product and solution delivery.

Technologies Used: *Java, PHP, OpenCV, TensorFlow, MySQL, JavaScript, HTML, CSS, Android, Jira, Git, Logstash, Kibana, Elastic Search, Grafana, Prometheus, Spring (Boot, Security, Web, Data), JPA, Hibernate, Docker.*

E-FULUSI AFRICA, Dar es Salaam, Tanzania ● 11/2011 – 04/2016
A consultancy and business development software company with a goal of bridging the gap in payment processes across Africa and providing financial services to the masses.

Sr. Software Engineer (01/2014-04/2016)
Led a team, built products and integrated with third party systems.
- Used CI/CD by Jenkins to automate the process of deploying performance enhancements and security patches, ensuring continues running systems at optimal performance and security levels.
- Collaborated with project managers to facilitate efficient sprint planning, daily scrums, and sprint reviews utilizing Agile and Jira, ensuring focus on key tasks and high progress toward sprint goals.
- Mentored and assisted junior and new developers, fostering a culture of continuous learning and improvement, creating a positive and supportive work environment.
- I utilized Xmind and MIRO to design the system architecture, effectively documenting key concepts and interconnections across various components to achieve a comprehensive representation.

Technologies Used: *Java, PHP, JavaScript, jQuery, Redis, MySQL, HTML, CSS, Git, Scrum, Jenkins, Elastic Search, Kibana, Logstash, Jira, Agile.*

Software Engineer (01/2013-12/2013)
Designed, developed, and maintained new and existing applications. Collaborated with stakeholders.
- Monitored system performance, utilized the ELK Stack for log monitoring and observability, and proactively addressed potential issues, resulting in an improved response time to incidents from 2 weeks to 2 days.
- Deployed and maintained systems using Jenkins ensuring consistent production deployments.
- Analyzed clients' requirements, collaborating with developers to implement new systems using Git and Jira, achieving high-quality results with daily scrums and sprint reviews.

- Wrote and maintained comprehensive documentation, simplifying onboarding and promoting clean code principles resulting in high maintainable codebase with shorter onboarding time for new team members.
- Maintained transparent communication with clients, providing regular updates and addressing concerns throughout the development process resulting into successful delivery of the project within budget and timelines.
- Implemented bug fixes and enhancements, ensuring the overall quality and performance of existing systems.

Technologies Used: *Java, PHP, JavaScript, jQuery, Redis, MySQL, HTML, CSS, Git, Scrum, Jenkins, Elastic Search, Kibana, Logstash, Jira, Agile.*

Jr. Software Engineer (11/2011 – 12/2012)
- Contributed to multiple software development projects.

Technologies Used: *PHP, Java, JavaScript, jQuery, MySQL, HTML, CSS, CodeIgniter, Jira, Jenkins, Cisco, Linux Server, Bash Scripts, Scrum, Agile.*

ACADEMIC PROJECTS

Maharishi International University (2023) Library Management System (LMS): Developed a management System to manage book copies, rentals. Utilized Java and Java Swing

Maharishi International University (2023) Job Application Tracking System (JATS): Developed Job Application tracking system, to manage job opportunities, job description, interview schedules and follow up dates. Utilized NodeJS, Express, AngularJS, Typescript, HTML, CSS, Tailwind CSS.

Maharishi International University (2023) E-commerce platform: The platform for managing product and orders. Utilized NodeJS, Express, Restful API, HTML, MongoDB, CSS, JS, Local Storage, Tailwind CSS.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 12/2025)
Maharishi International University, Fairfield, Iowa

Key Courses: Modern Programming, Web Application Programming, Advanced Software Development, Enterprise Architecture, Modern Web Applications

Bachelor of Science in Computer Science (Statistics)
University of Dar es Salaam (UDSM), Dar es Salaam, Tanzania (2011)