

Bwalya Chama Musonda

Senior Software Engineer

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1. Summary

Experienced software engineer with 12 years of industry expertise, specializing in developing innovative software solutions. Demonstrated success in designing, implementing, and maintaining robust applications, driving improved efficiency and productivity for diverse clients across various sectors. With a focus on the healthcare, fintech, education and AI industries, I bring a wealth of experience in creating efficient and secure software solutions.

Skilled in

- Javascript, Typescript, HTML, CSS, C#, PHP
- Node.js/Nest.js/Express.js, React/Next.js, Angular, React Native, .Net
- MongoDB, PostgreSQL, NoSQL, MySQL, Redis...
- AWS, Azure, GCP, Firebase
- Docker, Kafka, CI/CD, Terraform, Microservice, Apollo-GraphQL

2. Work Experience

Lead Engineer | Kunzig Consulting Inc (2019.6 – 2024.1, Florida, US)

- Worked on Fintech, Healthcare and AI projects with Javascript/Typescript.
- Used React/Nextjs for Ecommerce application frontend development.
- Skilled in leading frameworks such as React.js to build high-quality, scalable and reusable components and Front-end solutions.

- Implementing state management tools like Redux or MobX to manage complex application data and ensure a consistent user experience.
- Developed user management system and admin dashboard with Angular 15.
- Developed a cross-platform e-commerce application using React Native and managed global state with Redux. Integrated RESTful APIs to fetch product data and implemented user authentication and cart functionality, resulting in a seamless shopping experience for both iOS and Android users.
- Developed backend api with Nodejs.
 - Building hypotheses and executing the set of A/B tests related to the high-profile internal web application resulting in 2x conversion and revenue growth.
 - Utilized Node.js frameworks like Nest.js to build microservices architecture, enabling modular development and easy scalability for complex healthcare and fintech systems.
 - Implemented RESTful APIs with Node.js and Express.js to enable seamless integration of healthcare and fintech applications, facilitating efficient data exchange and interoperability.
 - Collaborated with cross-functional teams and compliance officers to ensure HIPAA compliance and data security standards were met in healthcare projects, leveraging Node.js security best practices and encryption algorithms.
 - Capturing the best development practices in a way of a common coding standards team of 4 developers that helped to decrease code complexity and improve maintainability of the shared libraries and components.
 - Integrating with third-party services and external APIs as a part of implementation of the high-profile customers-facing portal adopting an improved way of reports producing amongst different solutions and mitigating the code duplicity by 60%.
- AWS Components: S3, EBS, EC2, Security Groups, VPC, ElastiCache, Redshift, RDS, Elastic Beanstalk, DynamoDB, etc.
- Built and deployed CI/CD pipelines with 100% success rate.
- Architected and lead the transition from monolith to a cloud-based microservice architecture on AWS.
- Understanding of distributed systems and difference between microservices and Message Driven Architecture.

Full Stack Engineer | Viderity (2013.9 - 2019.5, Washington, US)

- Worked as a Front End Developer on the project with Javascript, ES6, React, Redux Saga, RESTful services, HTML5, CSS3, SASS, Bootstrap.
- Creating reusable and modular components to improve code maintainability and scalability.
- Building custom animations and transitions to enhance the user experience and create engaging interfaces.
- Worked on Angular 2+ versions (Used NgRx, Rxjs, Webpack, Gulp)
- Built a social media app using React Native, incorporating Firebase Authentication for user registration and login. Implemented Cloud Firestore to store and retrieve user-generated content, such as posts, images, and comments, enabling real-time interactions.
- I used Nodejs for backend api development.
 - Worked with several third party apis such as Stripe, Paypal, Twillio, Webrtc...
 - Node.js played a crucial role in our finance project, where we developed a real-time trading platform that leverages web sockets and APIs to process and display market data with low latency and high reliability.
 - Integrated third-party payment gateways and financial APIs into Node.js applications, enabling secure and reliable transaction processing for fintech projects.
 - Our financial reporting tool was built with Node.js, enabling us to efficiently process large amounts of financial data from multiple sources and generate customizable reports with ease, providing our clients with valuable insights into their financial performance.
 - Conducting requirements gathering and validation as a part of collaboration for the high-profile progressive web application that helped to develop clear, unambiguous technical requirements and establish consistent feed-back loop.
 - Coordinated with engineering and product teams in identification of customer requirements for the high-volume progressive web application. The result helped to create more than 16 BRD and tech documents to streamline development activities.
 - Implementation of the set of new API endpoints related to the mission-critical internal web application, that provided a critical connectivity channel for distributed functionality and increased system cohesion keeping manageable code complexity.
 - Maintaining newly developed and legacy systems mission critical external web app applying knowledge of Azure Functions, NHibernate and Jenkins.

- Ability to analyze applications for Azure suitability and propose right target state on Azure considering cost, performance, and security.
- Implement systems that are highly available, scalable, and self-healing on the AWS platform.
- Knowledge of monitoring, logging and cost management tools that integrate with AWS.
- Design, conceptualize, implement and maintain our microservices architecture using cutting-edge technologies and cat gifs.

Full Stack Engineer | Vodacom (2011.10 - 2013.5, Cape Town, South Africa)

- Developed some Ecommerce applications with PHP frameworks.
- Developed api with Nodejs for internal systems.
- Used ASP.NET , VB.NET, C#, and JavaScript to design and develop new sites and web-based solutions, both front end and back end.
- Utilize such technologies as ASP.NET MVC, HTML5, JavaScript and SQL Server 2012 to develop new applications.
- Use version control tool Git and code storage tool Github for added application functionality.
- Build bespoke application credit card forms and assure payment reliability with Stripe API.
- Integrate email functionality in applications by using Sendgrid.
- Lead team meetings to optimize the application creation cycle.

3. Education

University: University of Cape Town (2007 - 2011)

Degree: Bachelor of Computer Science