

Owen Oscar

Software Engineer | Backend

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ABOUT ME

I am confident enough to say I am skilled in programming concepts, especially when working with backend systems with JAVA programming language alongside web frameworks of spring boot ,vert.x and javalin. I have experience working as a developer with much understanding of java logics and data structures. I have designed and developed several REST and SOAP APIs with java frameworks in a FinTech environment(money transfer). Other than being efficient in backend programming, I am also good at developing android applications in java. I have worked extensively with PostgreSQL, MongoDB and MSSQL type of database servers. I also have an understanding and experience in working with DevOps tools like git, dockers, Jenkins and Kubernetes as an orchestrator tool. I do deploy stateless application multiple instances in Kubernetes to avoid unavailability of services. My programming enthusiasm has always brought me to speed in using the latest technologies and newly developed libraries and classes.

PROFESSIONAL EXPERIENCE

Software Developer | Backend applications & Devops operations

Dec. 2023 - Present

Freelance | *Nairobi*

- I do integrations programmatically with money remittance partners i.e Mastercard, moneytrans, Uremit, Xoom, Pegasus, Safaricom, InM Bank, Ncba Bank.
- I have experience in developing monolithic and microlithic java spring boot services.
- I integrate the vault server with spring boot to hide secret key variables and improve efficiency.
- I develop restful and soap APIs for the company system to facilitate interaction with the company's partners.
- I possess industrial knowledge on Data structures and Algorithms that I design and programmatically implement.
- I design and build models and objects that are to be used in any project to satisfy the project requirements ,company operations' team and the company's partners.
- I design and develop spring security features and custom filters to provision for maximum system security.
- I develop algorithms to encrypt company transactions data with custom base64 encoders as they are being sent to other remittance partners for processing.
- I design and implement the JOSE framework, which includes JWT,JWS,JWE,JWK and JWA.
- Implementation of OWASP principles by authenticating and authorizing every request in developed or in-development systems.
- I have experience in developing java spring boot applications using MVC architecture.
- Developing microservices with java spring boot and Vert.x.
- Strong experience in working with servlets
- Experience in deploying microservice java applications with Jetty
- I have created a master-slave instance for the company's live databases that performs live data backup of postgresql and MSSQL database servers asynchronously.
- I do clean, validate, compile and package a java application ready for deployment.
- I have a strong experience working with the docker environment, from configuring,building images to deployments.
- I do develop docker-compose files for java spring boot applications deployments.
- I have experience working with Kubernetes and devops tools i.e jenkins.
- Experience working with azure environment, including repositories,Wikis, deployments.

- I have experience working with Agile development project management.
- I have worked under Scrum and Agile project methodology

Software Developer | Backend

July 2023 - Dec 2023

Techlit Africa | *Nakuru / Mogotio*

- I developed scalable cloud architecture on AWS to support over 1000 daily active students in the Techlit program.
- I contributed to the optimization of PostgreSQL database queries, reducing latency by 30% and improving Techlit's application performance.
- Led migration from monolith to microservices, breaking apart legacy codebase into 6 independent services.
- Implemented CI/CD pipelines to automate testing and reduce deployment times from an hour to under 15 minutes.
- Designed NoSQL database schemas optimized for high read/write throughput, enabling support for up to 1000 transactions per second.
- Built high-availability services and systems able to scale horizontally across server clusters to handle traffic spikes.
- Aided in development of RESTful APIs used by 3 Techlit's frontend applications.
- Diagnosed and debugged over 50 tickets related to backend bugs or issues per sprint, providing solutions in an average of 1 hour.

Technical support specialist

Jan. 2022 - July. 2023

Lessos educational center | *Kapsabet*

- Provided daily IT support to over 2000 students, teachers and staff across 5 school buildings resolving 200+ tech related issues per month.
- Set up laptops, desktops, mobile devices, printers and other peripherals for 10+ new employees and improved onboarding efficiency by 65%.
- Trained 100+ educators on using classroom technology like smart boards, projectors and new software systems.
- Created help guides and FAQs reducing basic IT Support requests by 45% through self-service troubleshooting.
- Maintained 98% uptime for core systems including WIFI, internet, and servers supporting 8 school-wide initiatives.
- Tracked IT assets inventory for 200+ items across 5 locations ensuring chain of custody and security auditing.

IT Support intern

Sep. 2019 - Dec. 2019

DeepAfrica Co LTD | *Nairobi*

- Provided tier 1 technical support for 250+ clients on shared hosting plans, resolving password reset, email and basic website issues over phone and email.
- Documented over 100 client support tickets per week, achieving 80% first contact resolution rate and 4.8/5 customer satisfaction score.
- Assisted system administrators in monitoring the health of over 1000 Linux-based web servers to identify potential issues and prevent service outages.
- Set up cPanel and WHM accounts for 30+ new hosting customers per month including configuring DNS settings, email and databases.
- Created FAQ articles for 5 most common customer issues related to FTP, redirects, SSL certificates resulting in 10% ticket deflections.
- Shadowed senior engineers during maintenance tasks like server migrations, control panel updates, and load balancer configuration gaining hands-on experience.

EDUCATION

ALX Software engineering | Alx (Nov. 2022 - Jan. 2024) - Graduated.

Google IT Support Professional Certificate | Coursera (Nov 2022) - Graduated.

CS50X Computer science | Harvard University (August 2022) - Graduated.

Diploma in ICT | Ol'lessos Technical Training Institute - Graduated.

SKILLS

Languages | HTML | CSS | JAVA | JAVASCRIPT | PYTHON.

Frameworks | Java SpringBoot, Nodejs, React

Database | Oracle | MySQL | MongoDB.

Platforms | Windows | Linux | MacOS.

Technical support skills :

Helpdesk ticketing experience | Customer service and satisfaction focus | User onboarding and training | Documentation writing.