

JACOB OJJO

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EXPERIENCE

Software Developer (Project Lead)

06/2025 - Present

HERITAGE LANGUAGE SCHOOL

- Led end-to-end architecture and development of a comprehensive Learning Management System, coordinating technical decisions and guiding development priorities while implementing secure authentication, role-based access controls, and JWT-based session management
- Designed and optimized scalable database schemas for user management, course cataloging, enrollment tracking, and student progress monitoring across multiple educational programs
- Built responsive, mobile-first user interfaces with modern design principles, ensuring accessibility compliance and cross-platform compatibility for diverse user demographics
- Developed intuitive student dashboards with real-time progress tracking and course enrollment workflows, alongside comprehensive admin panels featuring advanced analytics, student management tools, and course administration capabilities
- Engineered CRUD operations for dynamic course creation and management, enabling efficient content delivery and curriculum updates for educational stakeholders
- Implemented performance optimization strategies including database query optimization, lazy loading techniques, and caching mechanisms to enhance system responsiveness
- Established robust testing frameworks with comprehensive unit and API integration testing, followed by end-to-end deployment processes including cloud infrastructure setup and system documentation
- Integrated advanced analytics and reporting capabilities providing actionable insights on course engagement, student performance, and platform utilization metrics while coordinating with stakeholders on feature priorities and maintaining CI/CD pipelines and coding standards

Software Developer (Internship)

12/2024 - 05/2025

UNITED NATIONS DEVELOPMENT PROGRAMME

- Implemented feature enhancements and resolved critical bugs to improve application performance and user experience
- Reviewed pull requests from team members to ensure code quality, adherence to standards, and proper documentation
- Established CI/CD pipelines and containerized applications using Docker to streamline deployment processes
- Participated in development projects using Agile Scrum methodology, managing the entire software development lifecycle from conception to deployment
- Collaborated in cross-functional teams to deliver high-quality software solutions aligned with client requirements
- Served as Team Lead for UN Volunteers, providing technical guidance, code reviews, and mentorship to improve team productivity
- Conducted client meetings to present project deliverables, gather requirements, and incorporate feedback into development cycles
- Created comprehensive technical and user documentation to facilitate knowledge transfer and improve system adoption

Software Developer

03/2024 - 07/2024

UNIPOD

- Led the architecture and coding of the UniPod software solution to accommodate 1000+ users, translating specifications into functional software while adhering to established coding standards and best practices
- Regularly reviewed and refactored code to maintain system performance and scalability
- Automated server management tasks using Bash scripts, improving efficiency in system monitoring and maintenance
- Oversaw quality assurance processes, collaborating with the QA team to ensure software underwent rigorous testing before deployment
- Collaborated with the IT team to ensure interoperability with other enterprise applications
- Crafted a user-friendly manual detailing system functionality and operation, facilitating user adoption and ease of use

- Designed and delivered a holistic training program for UniPod staff, ensuring they could harness the software's full potential

Software Developer

12/2023 - 03/2024

UNITED NATIONS VOLUNTEER

- Participated in the software development life cycle (SDLC), including initial brainstorming and conceptualization sessions
- Database Management: Developed and maintained efficient database schemas and optimized database performance to handle growing data needs
- Backend Development: Designed and implemented scalable backend solutions to support various functionalities of the UniPod system, focusing on performance optimization and reliability
- Contributed to the design and implementation of custom software modules, features, and functionality to ensure adaptability and responsiveness to user demands
- Developed comprehensive technical documentation to guide future software development endeavors

EDUCATION

Holberton School

10/2022 - 11/2023

Degree in Software Engineering

Nairobi, Kenya

Jomo Kenyatta University of Agriculture and Technology

09/2018 - 08/2022

Bachelor of Science in Analytical Chemistry

Nairobi, Kenya

School of Mathematics and Physical Sciences

SKILLS

Tech Skills: Python · TypeScript · JavaScript · React · Django · Node.js · Redis · MongoDB · PostgreSQL · Git · Docker · REST APIs · AWS · CI/CD · Kubernetes

Soft Skills: Excellent Communication · Collaboration and Teamwork · Problem Solving

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals
- Microsoft Certified: Azure AI/ML Fundamentals