

Jacob Ojijo

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EXPERIENCE

Software Developer (Project Lead)

UNIPOD (UNDP Innovation Institution)

March 2024 - July 2024

- 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.
- Oversaw quality assurance processes, collaborating with the QA team to ensure software underwent rigorous testing before deployment.
- Troubleshooted and resolved DNS, network configuration, and authentication issues to guarantee compatibility with existing IT infrastructure.
- 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

United Nations Volunteer, UNIPOD

December 2023 - May 2024

- 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.
- Set up and managed the development environment by preparing, installing, and configuring a local development server with essential software.
- Contributed to the design and implementation of custom software modules, features, and functionality to ensure adaptability and responsiveness to user demands.
- Debugged and troubleshooted software defects and issues throughout the development phase.
- Developed comprehensive technical documentation to guide future software development endeavors.

Open Source Contributions

Open Source

- **Wikimedia (html-metadata project)**
 - Resolved critical test suite issue where websites like The Guardian were rejecting requests with default preq library headers. Implemented browser-like User-Agent and Accept headers to fix HTTP 406 errors by modifying scraping code file to improve reliability when parsing data from major news websites.
 - Link: <https://github.com/wikimedia/html-metadata/pull/99>
- **Meshery (Layer5)**
 - Updated project documentation by revising the list of organizational-level secrets in the Build and Release guide. Identified outdated secrets, added new valid ones, and improved overall clarity of the documentation, enhancing security practices and developer onboarding process codebase
 - Link: <https://github.com/meshery/meshery/pull/11359>
- **Appwrite website**
 - Implemented pagination for blog posts to enhance performance. Resolved issue of rendering numerous posts on a single page by adding pagination logic, improving page load times and user experience
 - Link: <https://github.com/appwrite/website/pull/1174>

SKILLS

Languages: Python, Typescript, JavaScript, Golang, SQL
Frameworks: Nodejs (Express), Django, Nextjs/React
Tools: MongoDB, MySQL, Git, Docker, Kubernetes, REST APIs, AWS
Other Tech skills: Debugging, Documentation
Soft Skills: Excellent Communication, Collaboration and Teamwork, Problem Solving

EDUCATION

Degree in Software Engineering

Holberton School • 2023

Bachelor of Science in Analytical Chemistry

Jomo Kenyatta University of Agriculture and Technology • Nairobi, Kenya • 2022

CERTIFICATIONS

AWS Certified Cloud Practitioner

Microsoft Certified: Azure Fundamentals
