

ADEMOLA OMOSANYA

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Summary

Mid-level software engineer with strong open-source background and mentorship experience. Led the rewrite of Wikimedia's PendingChangesBot from PHP to Python, improving performance and maintainability, and contributed enhancements to MediaWiki's VisualData json-schema. Delivered UI improvements for the OCaml project website by reorganizing footer links for better navigation. Seeking to apply my full-stack expertise to drive robust, scalable solutions.

EXPERIENCE

Wikimedia Foundation

Software Engineer(Mentor)

San Francisco, California, United States · Oct 2025 - Present

- Mentored Outreachy interns to rewrite the PendingChangesBot from PHP to Python, using Docker containers for consistent development environments and applying Python best-practice patterns, resulting in a functional Python version ready for deployment
- Provided technical guidance on migrating legacy PHP codebases to Python with improved structure, maintainability, and performance, and proposed enhancements to development processes.
- Supported interns in understanding Wikimedia's open-source development workflows-including GitHub pull-request reviews, documentation standards, and collaboration tools such as Phabricator-enabling them to submit their first code contributions successfully
- Guided best practices in Python development, software design, and testing, and improved the design and architecture of tooling in a real-world production environment.
- Proactively improved development processes by incorporating coding standards and conducting regular code reviews to maintain high-quality software.
- Facilitated intern engagement with the Wikimedia developer community while contributing to tools that support content moderation and quality control across Wikimedia projects.

Outreachy Intern/contributor

Remote · Mar 2025 - Oct 2025

- Enhanced VisualData's JSON schema in MediaWiki using TypeScript and the MediaWiki API, delivering a more robust data-validation framework
- Implemented features and resolved issues by collaborating with open-source contributors, mentors, and project maintainers.
- Gained hands-on experience with JSON, PHP, JavaScript, MediaWiki, Git/GitHub, and APIs.
- Produced clean, documented code and actively participated in code reviews, project discussions, and community meetings.
- Enhanced remote collaboration and agile development practices.

Ocaml

open source contributor

remote · Oct 2023 - Dec 2023

- Collaborated with the OCaml development team as Outreachy applicant.
- Completed a selected task to rearrange the footer links in the footer template (footer.eml) of the OCaml project's website, improving navigation and user experience.
- Successfully reorganized footer links according to specified guidelines, ensuring seamless integration with the existing website design.
- Actively participated in team discussions, adhered to project standards, and contributed to continuous improvement efforts.

SKILLS

- **Programming Languages:** Javascript, Python, MySQL, HTML/CSS, PHP, Typescript
- **Libraries/Frameworks:** React, Next.js, Node.js, Bootstrap, Express.js, TailwindCSS
- **Tools / Platforms:** Git/GitHub, Visual Studio Code (VS Code), Docker, Postman
- **Databases:** MySQL, MongoDB

PROJECTS / OPEN-SOURCE

Footer Template Restructuring | [Link](#) | *Ocaml*

- Participated in the Outreachy contribution stage for the OCaml website by rearranging footer.eml links to improve navigation and user experience
- Rearranged footer links according to specified guidelines, enhancing the website's usability.
- Collaborated with the OCaml development team and adhered to project standards and guidelines.
- Ensured seamless integration of the updated footer template with the existing website design.
- Actively participated in discussions and contributed to the project's continuous improvement efforts.
- Used Git for version control and collaborated with the OCaml team through pull requests and code reviews to ensure alignment with project standards

VisualData JSON-Schema Improvements | [Link](#) | *MediaWiki*

- Implemented JSON-Schema support in the VisualData extension to enhance structured data handling across Wikimedia projects using JavaScript, PHP, and MySQL
- I contributed to MediaWikis VisualData extension by implementing JSON-Schema support, improving structured data handling across Wikimedia projects

- Collaborated closely with project maintainers to build an editor for CRUD operations on pages, schemas, and slots, contributing enhancements and resolving feedback via GitHub PRs
- Continued as a volunteer after internship, maintaining and enhancing the extension by writing code, reviewing feedback, and raising PRs.

Cat-a-lot Gadget | [Link](#) | [Wikimedia Commons](#)

- Javascript, MediaWiki Gadgets
- Improved the Cat-a-lot JavaScript gadget, a widely used tool on Wikimedia Commons for bulk photo categorization.
- Investigated and fixed a bug in the Cat-a-lot gadget where selecting a protected file caused the in-progress dialog to hang indefinitely.
- Enhanced error handling by adding callbacks, creating user-friendly dialogs (Ignore & continue / Stop editing), and improving feedback to users.
- Improved UI experience with better CSS, dark mode support, and modularized code to separate error display logic.
- Ensured the fix was reviewed and merged into the production version.

Clyyo | [Github](#) | [Next.js](#) • [TypeScript](#) • [PostgreSQL](#) • [AWS](#)

- Built an event management platform supporting event creation, QR-based check-in, attendee management, and organizer analytics.
- Designed an end-to-end booking and registration workflow with real-time attendance tracking.
- Implemented dashboards for organizers to monitor registrations, attendance metrics, and event performance.
- Focused on scalable architecture, reusable components, and an intuitive user experience.
- Optimized the application for responsive performance across desktop and mobile devices.

Miivra | [Github](#) | [React](#) • [TypeScript](#) • [PostgreSQL](#) • [Prisma](#)

- Built a developer platform for tracking, analyzing, and showcasing open-source contributions across multiple repositories.
- Designed dashboards that visualize contribution history, pull requests, issues, reviews, and developer achievements.
- Implemented authentication, user profiles, analytics, and repository integration with a scalable full-stack architecture.
- Architected the application with production-ready patterns including reusable APIs, type-safe database access, and responsive UI components.
- Implemented secure authentication, developer profiles, and personalized contribution insights.

Ferrum | [Github](#) | [Browser Engine](#)

- Building a browser engine to explore HTML parsing, CSS styling, layout computation, rendering, and web platform architecture. .
- Implementing browser internals from first principles to deepen understanding of rendering pipelines and modern web engines.
- Documenting design decisions and architecture while recreating key browser subsystems for educational purposes

Education

Federal University of Technology Akure

B.Tech Meteorology and Climate Science

- **Coursework:** • Built a strong analytical foundation through statistics, scientific computing, and data analysis.

Oct 2021 - Nov 2025

Miva Open University

B.Sc. Software Engineering

- **Coursework:** Data Structures, Algorithms, Software Engineering, Database Systems, Operating Systems

May 2026 - Dec 2028