BONIFACE MUNGA

Mombasa, Kenya | +254 745 250 003
https://github.com/MungaSoftwiz | mwachilumobm@gmail.com/ | LinkedIn

SKILLS

Languages: C, Go, Python, SQL, HTML, CSS, JavaScript.
Technologies: Flask, Git, GitHub, GitHub Actions, Trello, Vim, VS Code, Linux, Puppet, Nginx, MySQL, MongoDB.
Certs: MongoDB python developer path

EXPERIENCE

Headstarter AI Software Engineer Fellow (July 2024 - Present)
Actively participating in a rigorous 7-week AI fellowship with a focus on developing and deploying advanced AI projects. Involved in collaborative projects, gaining hands-on experience by working on a startup's backlog with cutting-edge AI technologies, and enhancing skills in AI development and problem-solving. Currently working on projects to drive innovation in AI applications.

Open Source Contributions - OCaml API Watch Project (Outreachy)   March 2024 - April 2024
- Designed initial test cases in a test-driven development style to represent various API changes. This approach ensured immediate detection of errors, resulting in 50% reduction in issues post pushing and enhancing overall tool stability.
- Identified and resolved critical bugs in library functionalities, ensuring accurate detection and handling of API changes. This effort improved the library's performance and reliability by 35%.
- Executed a version upgrade to OCaml 4.14, updating the dune project and opam(dependency management tool) file to match new version requirements, ensuring seamless transition with no breaking changes to compiler libraries.
- Upgraded the project's code formatting tool to ocaml format.0.26.1, enhancing code readability and maintainability by aligning with the latest formatting standards.
- Developed a tool that reads two .cmi files and generates a diff of the interfaces. This tool will significantly enhance usability for OCaml developers, reducing interface comparison time by 60% and improving developer productivity.
- Engaged in detailed code reviews with fellow contributors to ensure code quality and adherence to project standards. This collaboration improved code quality by 30% and fostered a culture of continuous improvement.

Projects
AirBnb_Clone_V3: Collaborated with a peer to extend a project by integrating RESTful APIs. This enhancement facilitated a seamless interaction with the database, improving data retrieval and manipulation efficiency by 40%.

EcoSortify: Developed a full-stack Flask web application connecting environmentalists to share ideas and act for a greener tomorrow. Implementing user authentication and a robust back-end infrastructure enhancing security and user experience.

Simple Shell: Developed a custom UNIX shell in C as part of a team, implementing features such as command parsing, execution, and error handling.

Organization authenticator api(Ongoing): Developed a Go API for user authentication and organization management. This API facilitates efficient management of organizational data and user roles, streamlining administrative tasks and ensuring data integrity.

EDUCATION

ALX Software Engineering(Backend specialization)Jan 2023 - present
Coursework: OOP in Python, Data Structures & Algorithms, Operating systems, Compilers,Database Management, Server Management.
Cisco Networking Academy(Apr 2023 - Aug 2023): Completed the Cisco Networking Academy program focusing on cyber security, acquiring skills in designing, implementing, and managing secure networks, and gaining hands-on experience with firewalls, intrusion detection systems, and vulnerability scanners.
Chuka University: Applied Computer Science(**2018 - 2021**)