

Ibrahim KAIKAA

Software Developer, and Open Source Contributor

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EXPERIENCE

SerenityOS — Open Source Contributor

DECEMBER 2023 - JANUARY 2024

- Optimized performance by migrating +5 GML-based GUI applications to a GML Compiler.
- Updated +10 out of date software ports.
- **Technologies used** : Operating Systems, Shell Scripting, C++, Git.

FlexFret — Mobile Developer Intern

JUNE 2023 - DECEMBER 2023

- Developed a mobile app for freight transportation and management.
- Implemented a functional CI/CD for unit-testing and deployment using Gitlab CI.
- **Technologies used** : Flutter, Firebase, Test-Driven Development, Hexagonal Architecture, Git, GitLab CI.

HardenedBSD — Open Source Contributor

FEBRUARY 2022 - MAY 2023

- Fixed +50 broken software ports for the HardenedBSD operating system.
- **Technologies used** : Operating systems, FreeBSD, HardenedBSD, Shell Scripting, Git.

EDUCATION

University of Science and Technology of Oran — Bachelor's of Science in Electrical Engineering

SEPTEMBER 2022 - JUNE 2025

PROJECTS

SPL — An interpreted programming language

JUNE 2024 - PRESENT

- A statically typed programming language with an intuitive syntax and custom virtual machine for optimized execution.
- **Technologies used** : C++, CMake, Lex, Yacc, Git, Github Actions, Google-Test.

Yasi — Yet Another Scheme Implementation

DECEMBER 2023 - APRIL 2024

- An implementation of the Scheme programming language, featuring a custom-built lexer, parser, compiler, and virtual machine for efficient execution.
- Achieves runtime performance 20-50% faster than equivalent Python implementations on basic benchmarks.
- **Technologies used** : C++, CMake, Git, Github Actions, Google-Test.

StargateProxy — An HTTP Proxy

JUNE 2024 - JULY 2024

- An HTTP Proxy featuring support for TLS Tunneling and caching for optimization.
- **Technologies used** : Go, Git, Docker, Networks Programming.

PocketLlama2 — Llama 2 LLM Inference in your pocket

FEBRUARY 2023

- A mobile application for on-device inference using the Llama 2 language model.
- **Technologies used** : Flutter, BLoC, Git.

SKILLS

Programming and Scripting Languages: Bash, C, C++, Dart, Go, JavaScript, TypeScript.
Web Technologies: HTML, CSS, Express.js.
Mobile Development: Flutter, BLoC.
Testing and debugging tools: Google-Test, GDB, Valgrind.
DevOps and Tools: Git, Docker, CMake, Meson, GitLab CI, GitHub Actions.
Databases & Backend: Firebase, Supabase.
Operating systems: Linux, FreeBSD, HardenedBSD.
Other: Lex, Yacc, Hugo, Markdown, QML.

LANGUAGES

Arabic, English, French