

Ibrahim KAIKAA

Software Developer, and Open Source Contributor

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EXPERIENCE

Research In English — Web Developer

JANUARY 2024 - FEBRUARY 2024

- Multiple layout fixes and performance improvements for the website.
- Added multiple features to the internal tools.
- **Technologies used** : HTML, CSS, JavaScript, Node.js, Express.js.

SerenityOS — Open Source Contributor

DECEMBER 2023 - JANUARY 2024

- Optimized +5 GML-based GUI applications by porting them 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- Updated +10 out of date software ports.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, BLoC, Firebase, 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, interpreted, VM-based and garbage collected programming language.
- Achieves 20-150% better runtime performance than Python.
- **Technologies used** : C++, CMake, Lex, Yacc, Git, Github Actions, Google-Test.

Yasi — Yet Another Scheme Implementation

DECEMBER 2023 - APRIL 2024

- A basic dialect of the Lisp programming language.
- **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,
MySQL, SQLite.

Operating systems:

Linux,
FreeBSD, HardenedBSD,
OpenBSD.

Methodologies and

practices: Scrum, TDD,
Hexagonal Architecture,
Clean Code.

Other: Lex, Yacc, Hugo,
Markdown, QML.

LANGUAGES

Arabic, English, French