IMANE YACOUBI she/her

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Education

University of Waterloo — Waterloo, ON
Bachelor of Computer Science — *2022 – 2026*
Courses: Object-Oriented Programming, Compilers, Data Structures, Algorithms, Computer Organization

Technical Skills

Languages: C++, C, Python, JavaScript, Objective C, R, Bash, SQL
Technologies: Linux, Node.js, Vue.js, macOS SDK, Matplotlib, SQLite, Appium, Selenium, Android SDK

Experience

Maxon Computer — May 2024 – August 2024
Software Engineer Intern — Central Maxon App Team — *Waterloo, ON*

- Extended a C++ module to retrieve and manage system process info for Linux, macOS, and Windows
  - Improved the stability of the Maxon App and lead to a **10%** reduction in application slowdowns
- Introduced a new attribute to the database schema and API endpoints to capture the service version
  - Enhanced analytics reporting and analysis by enabling tracking of feature-related events per version
  - Reduced analytics framework support tickets by **20%**, saving ≈ **$50,000** annually in operational costs
- Developed and integrated APIs to transmit licensing and trial status from the 10Duke payload to GUI
  - Significantly improved real-time license management and user experience for **1.7M** users
- Enhanced Maxon's C++ UI kit by integrating browser context menus support into the native app
  - Leveraged WebKit and Edge browser engines capabilities to load web assets into a C++ app
  - Reduced UI support tickets by **17%** and boosted customer satisfaction by **8%** based on survey feedback

Huawei Technologies — May 2023 – August 2023
Software Engineering Intern — Web Engine Research — *Markham, ON*

- Owned development of cross-platform benchmark tool in **Node.js** for WebView performance on mobile
  - Benefited **100+** developers in Web Engine R&D by providing a comprehensive report generation tool
- Automated web testing through simulated user actions in a configurable environment using **Appium**
  - Enabled daily generation of **3,000+** performance reports, boosting scalability and reliability of analysis
- Optimized web performance extraction using various measurement methodologies that adapt to specific hardware, OS, and browser in use, utilizing system-level profilers and browser-native tools

Projects

Chess | *C++20, X11*

A fully functional memory-safe C++ Chess game with a built-in GUI and 4 levels of AI players

- Used smart pointers and RAII principles to ensure robust memory safety and code correctness

EUR-E-CLOCK | *C, HTML/CSS*

An ESP32-based alarm clock that requires answering trivia questions to deactivate

C-Subset Compiler | *C++, MIPS Assembly*

A C-subset compiler written in modern C++ targeting the MIPS 32-bit architecture

Leadership

Mentor, *Women in Computer Science Club* | Community Representative & Advisor, *Computer Science Club* | Orientation Leader, *Math Faculty* | President, *Culture & Language Club* | Member, *Poker Studies Club*