

# IMANE YACOUBI she/her

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## EDUCATION

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**University of Waterloo**

Waterloo, ON

Bachelor of Computer Science

Sep. 2022 – Apr. 2027 

**Courses:** Operating Systems, Databases, Networks, Compilers, Algorithms, Data Structures, User Interfaces

## TECHNICAL SKILLS

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**Languages:** C++, TypeScript, JavaScript, Python, C#, SQL

**Technologies:** Linux, Node.js, Azure, React, .NET, macOS SDK, SQLite, Appium, Android SDK

## EXPERIENCE

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 **Microsoft**

May 2025 – Jul. 2025

Software Engineering Intern — Financial Platforms

Redmond, WA

- Drove development of a .NET incident investigation tool for the Payment services, accelerating triage of **200+** daily incidents and enhancing reliability of **50M+** daily payment transactions across Microsoft platforms
  - Implemented a customized RAG pipeline using semantic search over a vector database of historical incident logs to retrieve relevant past investigation findings for new incidents and inform their troubleshooting
  - Integrated Azure OpenAI with investigation data to infer root causes, suggest fixes, and uncover patterns
  - Reduced manual triage time for engineers by about **1/3**
- Eliminated daily manual monitoring of **100+** production error types across over **200K+** daily logs by developing an LLM-powered tool that dynamically flags critical issues using historical failure trend analysis
  - Integrated Azure DevOps API to auto-create tasks for each flagged prod error with reproduction queries

 **Maxon Computer**

May 2024 – Aug. 2024

Software Engineering 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

 **Huawei Technologies**

May 2023 – Aug. 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

## PROJECTS

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**IoT Alarm Clock**  | Embedded C

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

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

Implemented a basic C compiler written in modern C++ targeting the MIPS 32-bit architecture

## LEADERSHIP

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