

Imane Yacoubi she/her


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EDUCATION

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

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

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

EXPERIENCE

 **Microsoft**

Jan. 2026 – Apr. 2026

Incoming Software Engineering Intern

Redmond, WA

 **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 **33%**
- Eliminated daily manual monitoring of **100+** production error types across **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 led to a **10%** reduction in application slowdowns
- Introduced a new attribute to a **relational database** schema and API endpoints to capture service version
 - Enhanced analytics reporting and analysis by enabling tracking of feature-related events per version
 - Reduced analytics framework support tickets by **20%**, saving \approx **\$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 & RESEARCH

Distributed Systems Lab | Serverless Computing Storage (Advised by *Prof. Bernard Wong* )

Designing and implementing a fast storage system for Serverless

C Compiler  | C++, MIPS Assembly

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

LEADERSHIP

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*