Imane Yacoubi she/her

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EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Computer Science   Sep. 2022 – Apr. 2026 🎓
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 ≈ **$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*