

MALCOLM WRIGHT

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TECHNICAL SKILLS

Languages: C, C++, Kotlin, Python, Java, C#, HTML/CSS, SQL, TypeScript, JavaScript, PHP
Technologies: Azure, AWS, Spring Boot, .NET, Kafka, React, Bootstrap, Vue.js, Node.js, Express, Firebase

WORK EXPERIENCE

- Microsoft** July 2024 - Present
Software Engineer Atlanta, GA
- Empowering Excel users to utilize Python capabilities by designing, developing, and deploying **low-latency C & C++ code**.
- Microsoft** May 2023 - Aug 2023
Software Engineer Intern Redmond, WA
- Implemented a feature within Tasks by Planner for **20k+** headquarters users using **C#** and **React**, which allows customization of how notifications are delivered when a task list is published or unpublished.
 - Integrated the **GPT-3.5 model** with **FluentUI** components in a Copilot sidecar experience to display a project status report, enabling project managers to view and share highlights and challenges of a project.
- Wealthsimple** Jan 2023 - April 2023
Software Engineer Intern Toronto, ON
- Enabled clients to recoup money if they possess expiring in-the-money options by helping design, develop, and deploy a **Kotlin** cron job that leverages **AWS SQS**.
 - Built 2 Slack bots that display auto-sell batch info at the end of every market day, allowing ~200 stakeholders across teams to track when expiring in-the-money options are automatically sold to the market.
 - Utilized **Kotlin** lambda expressions and high-order function techniques, decreasing code repetition by **75%** between 4 cron jobs.
- Microsoft** May 2022 - Aug 2022
Software Engineer Intern Redmond, WA
- Researched and implemented a **dockerized reverse proxy** within an **Azure** virtual machine, allowing for requests to be distributed to the correct service based on the request format.
 - Created a **Grafana** metrics dashboard for observability, enabling the team to see real-time traffic visuals on all requests that hit the reverse proxy.
- Tulip Retail** Sept 2021 - Dec 2021
Software Developer Intern Toronto, ON
- Created custom hooks along with **Jest** unit tests for the web chat widget, giving clients the ability to track specific conversation metrics.
 - Increased keyboard accessibility by **165%** using **JavaScript**, allowing the user to navigate the web chat widget entirely with the keyboard.
- Microsoft** May 2021 - Aug 2021
Explore Intern (Software Engineering + Program Management) Redmond, WA
- Developed an actionable dashboard in Power BI to display unrecognized accounting value of gift cards and tokens up to **\$10 million USD**.
 - Optimized, consolidated, and documented a financial record reprocessing tool in **C#**, resulting in a **50x speedup** by leveraging parallelization and streamlining the workflow.

PROJECTS

- Lawn Companion** *Kotlin, SQL, Espresso, Firebase*
- Developed an Android app using **Kotlin** and **OpenWeatherMap API** that suggests when to cut your lawn based on local weather forecast data and the timing of your previous cut. Released to the Google Play Store with **15+ installs**.

EDUCATION

- Bachelor of Computing (Co-op) - University of Guelph** 09/2019 - 04/2024
Major in Computer Science, Minor in Business Guelph, ON
- GPA:** 3.8/4.0 cumulative (88.41% overall)
 - Dean's List** 2019-2024
 - Teaching Assistant** for Introduction to Programming and Introduction to Computing for three semesters.
 - Relevant Coursework:** Data Structures, Algorithms, Operating Systems, OOP, Databases, Cryptography, Computer Security