MALCOLM WRIGHT

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EDUCATION

Bachelor of Computing (Co-op) - University of Guelph　　　　09/2019 - 04/2024 (Expected)
Major in Computer Science, Minor in Business　　　　*Guelph, ON*

- **GPA**: 3.8/4.0 cumulative (88.12% overall)
- **Dean's List** 2019-2022
- **Teaching Assistant** for Introduction to Programming and Introduction to Computing for Fall 2020 & 2022
- **Extracurriculars**: Caribbean Culture Club, Guelph Black Student Association, Intermural Basketball

TECHNICAL SKILLS

Languages:	Kotlin, Java, C, C#, HTML/CSS, SQL, Python, JavaScript, PHP
Frameworks/Libraries:	Spring Boot, Kafka, Bootstrap, Vue.js, .NET, Node.js, Express, Firebase, React, Flask
Tools:	Git, Android Studio, Gradle, Docker, Azure, SQS, Power BI, Figma,

WORK EXPERIENCE

Microsoft　　　　May 2023 - Aug 2023
Incoming Software Engineer Intern　　　　*Redmond, WA*

- Joining the Excel team

Wealthsimple　　　　Jan 2023 - April 2023
Software Engineer Intern　　　　*Toronto, ON*

- Created a cron job alongside an **SQS** queue to kick off the auto-sell process, allowing clients to recoup money on their in-the-money options contracts when they have insufficient funds/shares to exercise.
- Built 2 Slackbots 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 contracts are automatically sold to the market.
- Utilized Kotlin lambda expressions and high-order function techniques inside a shared helper class, 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.
- Leveraged **Redis** as a provider of dynamic configuration, providing configuration for routers, services, and middlewares to the reverse proxy.
- 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**.

NBA Trivia *Node.js, Vue.js, Express*

- Created a full-stack NBA trivia web app allowing users to test their knowledge of the NBA. Hosted on Heroku with the back-end utilizing **Node.js** and **Express** while the front-end uses **Vue.js** and **Bootstrap**.