Jafer Haider

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EDUCATION

University of Waterloo — Waterloo, ON, Canada
Honours Bachelor in Computer Science, B.S. — *September 2016 - December 2021*

Wilfrid Laurier University — Waterloo, ON, Canada
Honours Bachelor in Business Administration, B.A. — *September 2016 - December 2021*

SKILLS

Languages: Python, Go, JavaScript, C++, Java, SQL   **Tools:** AWS, Google Cloud, Docker, React, Django

EXPERIENCE

Google — Sunnyvale, CA, USA
Software Engineer Intern — *May 2021 - August 2021*

- Designing a diagnostic container in **Go** to detect problems with Cloud VMWare Engine clusters

Amazon — Vancouver, BC, Canada
Software Engineer Intern — *September 2020 - December 2020*

- Led design and development of a dynamic feature flag in **Java, Spring** for AWS Step Functions using **AppConfig** to reduce region launch times **by over 96%** from several weeks down to under an hour
- Updated Amazon States Language compiler to validate ARNs at compile-time for a superior customer experience
- Developed and maintained pipeline and infrastructure to automate detection of new AWS regions

Yelp — San Francisco, CA, USA
Software Engineer Intern — *January 2020 - April 2020*

- Extended JupyterLab with **AWS IAM** management in **JavaScript** to reduce user onboarding times **by 3 hours**
- Rewrote and maintained open source JupyterLab extension in **Python, Scala** for monitoring Apache Spark jobs to assist in monitoring and cutting internal Spark costs

University of Waterloo — Waterloo, ON, Canada
Undergraduate Research Assistant — *September 2019 - December 2019*

- Implemented fence operations for x86 hardware in **C-for-all** to allow prevention of compile-time code optimizations

Vida Health — San Francisco, CA, USA
Software Engineer Intern - Data Science — *May 2019 - August 2019*

- Improved performance of primary prediction pipeline **by 50%** through parallelization and code deduplication
- Increased consumer engagement by designing and building recipe recommendations in **Python** using a hybrid implementation of content-based and collaborative filtering models

Bank of Montreal Capital Markets — Toronto, ON, Canada
Software Developer Intern — *January 2018 - April 2018*

- Developed pub/sub messaging system in **C#, SQL Server** to asynchronously trade bonds in bulk

PROJECTS

Resume Parser ☐ – Web app (**20,000+ unique users**) that displays parsed resume information using the Lever API

SparkMonitor ☐ – JupyterLab extension (**10,000+ installs**) to monitor Apache Spark jobs executed in notebook cells

BetterMultitasking ☐ – ipadOS tweak (**5000+ installs**) enabling native execution of iPhone apps on iPad

BigPiPEnergy ☐ – ipadOS tweak (**4000+ installs**) removing native OS restrictions on Picture-in-Picture size

Schwab API ☐ – Python API (**1500+ installs**) written using Playwright to trade securities on Charles Schwab

Meal Recommendations ☐ – Content-based model that creates user profiles of ingredient matrices to recommend food