

DAVID KHAZZAM

Software Developer | 3rd Year Student

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EXPERIENCE

Google

Software Developer Intern

May 2021 - Aug 2021

- Designed, implemented, tested, documented, launched and landed a **Go** tool that enabled the analysis of a key internal tool's performance metrics when run over **hundreds of thousands** of migration runs, across the **entirety** of **Google's** codebase
- Made **immediate** impact on team's work, providing insight to influence **key** business decisions

Kinaxis

Algorithms Developer

Sep 2020 - Dec 2020

- Revamped a **C++** tool to detect and display **70+ supply-chain inefficiencies** in a user-friendly format, providing new avenues for resolving key problems
- Leveraged **NLP** and **Flask** to scrape social media, using interactive **Plotly** visualizations to display the effects of public sentiment on future demand

Web Application Developer

Jan 2020 - May 2020

- Finalist** for the **University of Waterloo's Co-op Student of the Year**
- Built **30+** reusable and responsive **React** components, leveraging **Redux**
- Practiced **test-driven development** to unit test components utilizing **Jest**, **Jasmine** and **TestCafe**, improving test coverage to over **97%**

Agriculture and Agri-Food Canada

Knowledge Graph Developer

Apr 2019 - Aug 2019

- Created **Python** scripts and **SPARQL** queries to clean and organize over **20,000** botanical species' data into practical formats
- Used **Machine Learning** and **Data Mining** to identify new correlations

PROJECTS

Optimo Vision Analyzer

StarterHacks | 1st Place, over 500 participants

Jan 2019

- Implemented **voice** recognition software using a **Web Speech API** in addition to **HTML**, **JavaScript**, and **CSS** to allow a website to process and respond to a user's input, as well as to **dynamically adjust** to **varying screen-sizes**

Bit by Bit

Hacking Health Ottawa | 1st Place, over 100 participants

Jun 2019

- Won **10,000\$** of support from the **Algonquin College Centre for Innovation**
- Collaborated to design an app to **help recovering patients track their fitness**

C++ Compiler

University of Waterloo | Top Grade, over 500 students

May - Aug 2020

- Created an **Assembler**, a **Scanner**, a **Context Sensitive Analyzer** and a **Code Generator** for the **C++** language, passing **99.97%** of test cases
- Optimized compiler to be in the **top 1%** of the **most efficient** submissions

SKILLS

Programming Languages

C++

Go

Python

React & Redux

TypeScript

C

JavaScript

SPARQL

Scheme (Racket)

Tools and Technologies

Git

Jest & Jasmine

Bash

Unix/Linux

Windows

MIPS

HTML

CSS

EDUCATION

Candidate for Bachelor of Honours
Computer Science

University of Waterloo

2018 - 2023

- President's Scholarship of Distinction
(97.3% entrance average)
- GPA: 3.9/4.0

RELEVANT COURSES

- Operating Systems (W21)
- Algorithms (W21)
- Data Structures and Data Management (S20)
- Object-Oriented Software Development (F19)

LANGUAGES

English

French

Spanish



HOBBIES & EXTRACURRICULARS

🏑 Varsity Quidditch Captain

🎵 Acapella

♟️ Strategy games aficionado

➕ Math Society Office Manager