

# DAVID KHAZZAM

## Software Developer

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## PROJECTS

### Bit by bit

#### Hacking Health Ottawa

📅 June 2019

📍 Ottawa, Ontario

- Won 10,000\$ worth of mentorship and support provided by the Centre for Innovation at Algonquin College
- Designed an app to help recovering patients track their fitness, as well as to connect with other patients
- Used HTML, CSS, React and Node.js, and a Fitbit API to fetch the data

### trEcho

#### uOttawaHacks<sup>3</sup>

📅 February 2020

📍 Ottawa, Ontario

- Designed and integrated custom skills using AWS Lambda for Amazon Echo
- Built an algorithm using a Google Map API, as well as latitude and longitudinal calculations, to provide a 94% effective estimate of a package's location
- Employed algorithm on a Flask app to cache package's location, drastically reducing stress of over 30 million requests on the delivery system per day
- Won Wolfram Award for a top 20 finish out of 400+ participants

### Optimo

#### StarterHacks

📅 Jan 2019

📍 Waterloo, Ontario

- Won Best Pitch at StarterHacks 2019, competing with over 500 participants
- Collaborated on Git to create a web app that analyzes a user's eye vision
- Implemented voice recognition software using 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 dynamically adjust to varying screen-sizes
- Incorporated accurate optometric research to improve the algorithm's correctness, achieving 96% accuracy.

## EXPERIENCE

### Web Application Developer

#### Kinaxis

📅 January 2020-May 2020

📍 Ottawa, Ontario

- Revamped the product design using ReactJS to implement a fresher look
- Thoroughly tested components using Jest and Jasmine as well as TestCafe

### Knowledge Graph Developer

#### Agriculture and Agri-Food Canada

📅 April 2019-August 2019

📍 Ottawa, Ontario

- Created Python scripts and SPARQL queries to clean and organize over 20,000 botanical species' data into practical formats
- Created, implemented and stored knowledge graphs in a database on an AWS Metaphactory platform, facilitating user interactivity
- Built interactive visualizations using R and D3.js, enabling botanists to develop new insights and understandings of plant species
- Used Machine Learning and Data Mining to investigate the correlation between species' properties

## SKILLS

### Programming Languages

C++ Python React & Redux  
Typescript C JavaScript R  
SPARQL Java Scheme (Racket)

### Tools and Technologies

Git Jest & Jasmine Bash  
Unix/Linux Windows AWS  
HTML CSS Shiny

## EDUCATION

### Candidate for Bachelor of Honours Computer Science

#### University of Waterloo

📅 2018 - 2022

- President's Scholarship of Distinction (>95% entrance average)
- GPA: 3.82/4.0

### International Baccalaureate Diploma

#### Ashbury College

📅 2015-2017

📍 Ottawa, Ontario

## RELEVANT COURSES

- Object-Oriented Software Development
- Logic and Computation
- Elementary Algorithm Design and Data Abstraction
- Designing Functional Programs

## LANGUAGES

English  
French  
Spanish



## HOBBIES & EXTRACURRICULARS

- Varsity Quidditch Athlete & Executive
- Acapella
- Strategy games
- Math Society Office Manager