DAVID KHAZZAM

Software Developer

@ david.a.khazzam@gmail.com 📞 (613) 407-0409 in davidkhazzam ○ dakadabra 🔗 davidkhazzam.com

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** to build the app, and used a Fitbit API to fetch the data

Optimo
StarterHacks

📅 Jan 2019 📍 Waterloo, Ontario

- **Won Best Pitch** at StarterHacks 2019, a Major League hackathon with **over 500 participants**
- Collaborated on Git to create a web app that analyzes and determines 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

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

Office Manager
Math Society, University of Waterloo

📅 Sept 2018 - present 📍 Waterloo, Ontario

- Managed the day-to-day operations of the office, **provided information and service guidance** to **7000+ undergraduate students** in the Math faculty

Won 1st place in the Provincial Competition
Destination Imagination

📅 2015-2017 📍 Toronto, Ontario

- Solved **STEM-based challenges** quickly and effectively with problem-solving and teamwork skills

SKILLS

Programming Languages

C Python C++ JavaScript R SPARQL Java Scheme (Racket)

Tools and Technologies

Git D3.js Bash Unix/Linux AWS HTML CSS Shiny

EDUCATION

Candidate for Bachelor of Honours Computer Science
University of Waterloo

📅 2018 – present

- President's Scholarship of Distinction (**>95%** entrance average)
- **GPA: 3.81/4.0**

International Baccalaureate Diploma
Ashbury College

📅 2015-2017

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