

DAVID KHAZZAM

Software Developer

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EXPERIENCE

Web Application Developer

January 2020-May 2020

Kinaxis

- Built 30+ reusable, responsive **React** components, leveraging **Redux** to improve code architecture and usability
- Practiced **test-driven development** to unit test components utilizing **Jest**, **Jasmine** and **TestCafe**, improving test coverage to over 97% and achieving a 98% **Jenkins CLI builds success rate**
- Took initiative to establish help resources and tutorials for new employees, **reducing wasted time by 90%**
- Designed and implemented **critical software** for **BETA launch** of front-line customer product
- Routed data using **10+ RESTful API endpoints** from **C# server**

Knowledge Graph Developer

April 2019-August 2019

Agriculture and Agri-Food Canada

- 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

PROJECTS

trEcho

uOttawaHacks³

February 2020

- 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**

Bit by bit

Hacking Health Ottawa

June 2019

- 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

Optimo

StarterHacks

Jan 2019

- 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**.

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 Captain
- Acapella
- Strategy games
- Math Society Office Manager