

# KAREEM SHAMMOUT

Mathematics, BA (Computer Science Minor) 4<sup>th</sup> year  
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## TECHNICAL STRENGTHS

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<b>Front End Development</b>	TypeScript, React, HTML, CSS - 3 years
<b>Back End Development</b>	SQL, MongoDB, AWS, Apollo GraphQL - 2 years
<b>Software Engineering</b>	Python, C++, Java - 2 years

## EXPERIENCE

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**Full Stack Developer / QA** *12 months, 2020 - 2021*  
*Vidigami*

- Developed over 40 new features for Vidigami's new application using TypeScript and React
- Worked with other developers to fix hundreds of high priority bugs during our launch week to ensure customer satisfaction
- Integrated back end resources using MongoDB, MySQL and used GraphQL to manipulate APIs
- Helped lead the team in manual and automated testing on Vidigami's newest application and provided clear documentation and communication to the development team

**Software Developer** *4 months, 2020*  
*Vancouver Coastal Health Research Institute*

- Constructed, maintained, and fine-tuned machine learning software pipelines for pathology imaging and genomics
- Contributed to developing software for image processing and genomics data processing using Bitbucket as the primary version control system
- Organized and annotated the imaging and genomics datasets as well as maintained and designed the UI for the BC pathology AI initiative website

## PROJECTS

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**Cinemadle** *March 2022*  
Inspired by Wordle, Cinemadle gives users 6 tries to guess the film, with a new frame displayed after every guess. Scraped and processed over 2500 film-grab entries to create a local database using Python, resulting in an online web app with over **100 daily users**.  
Technologies: Python, React, Tailwind

**COVID-19 X-ray image classifier** *Apr 2020*  
Developed a model to classify X-ray images of lungs to determine whether a patient has COVID-19. The model has a training and test accuracy of 95+%.  
Technologies: Python, PyTorch

## **GroceryCompare**

*Jan 2020 - Mar 2020*

Web application developed to help UBC students find the best values of products in local grocery stores. Built by collecting and analysing data of 3 popular grocery stores near campus with the use of Selenium.

Technologies: Python, Selenium, SQL

## **Decode Congestion Hackathon (City of Vancouver)**

*November 2019*

*2nd Place Winner (\$2000 Cash Prize)*

- In a team of 4, designed and built a website for anyone to check current traffic and congestion in Vancouver
- Utilized the Google Maps API to allow for user interaction with pins on the map to display the number of busses and cars at each intersection, as well as weather data for that location
- Handled information coming from a server to a google maps user interface with Javascript and organized the construction of the website using HTML and CSS
- Scraped hundreds of photos from databases with Python to be handled by a machine learning algorithm on an AWS server

## **EDUCATION**

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### **The University of British Columbia**

*2017 - 2022*

Mathematics, BA (Computer Science Minor) 4<sup>th</sup> year

Relevant courses:

- Machine Learning and Data Mining
- Intermediate algorithm design and analysis
- Software Engineering
- Internet Computing
- Applied linear algebra
- Graph Theory
- Introduction to relational databases
- Introduction to computer systems

### **Copenhagen International School**

*2011 - 2017*

International Baccalaureate

## **EXTRA-CURRICULAR AND PERSONAL TRAITS**

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Languages: English, Arabic, German

Co-Founder of Copenhaag - Fundraiser bike trip from Copenhagen, DK to the Hague, NL