

# ADIL ASIM

Email: [ma2asim@edu.uwaterloo.ca](mailto:ma2asim@edu.uwaterloo.ca)

Site: [adilasim.com](http://adilasim.com)

GitHub: [github.com/4d11](https://github.com/4d11)

Cell: +1 (519) 504-7798

## EDUCATION

Candidate for Bachelor of Computer Science - Business Option

Graduating April 2020

**University of Waterloo**

**Coursework:** Computer Vision, Operating Systems, User Interfaces, Object Oriented Programming, Databases

## SKILLS

**General:** C • Bash • Python • C++ • Lisp • JavaScript • Java • C# • Ruby

**Web Development:** Angular • React • Flask • Rails • ASP.NET • JWT • GraphQL

**ML/Data Science:** Keras • TensorFlow • scikit-learn • scikit-image • Pandas • NLTK

## EXPERIENCE

**Hashtag Paid Inc.** [Software Developer Intern](#)

Jan 2019 – April 2019

- Designed and built an Amazon **Redshift** data warehouse, resulting in 3x faster queries for performance analytics. Used **Airflow** to manage data pipelines.
- Architected feature to support concurrent team users using **Ruby on Rails (w/ RSpec)**, **React** and **PostgreSQL**, leading to significant improvements in client productivity and satisfaction.
- Conducted extensive usability tests to validate workflows and interfaces.

**Fast Access Blockchain** [Blockchain Developer](#)

May 2018 – Aug 2018

- Developed client-side web wallet with an interface for decentralized app (**dApp**) creation, deployment and interaction from the ground-up using **Angular**.
- Wrote **Solidity** smart contracts to thoroughly test abstraction layers responsible for Ethereum Virtual Machine (**EVM**) integration.

**Perkin Elmer Inc.** [Full-Stack/ML Developer](#)

Sept 2017 – Dec 2017

- Used **scikit-learn** and **Keras** to build machine learning models to classify trace metals present in a solution.
- Designed and developed models for spectral simulation using **SciPy** and **NumPy**. Used models to augment datasets, improving classification accuracy by 5% while minimizing time spent on gathering data from instruments.

**Red Trait Ventures** [Back-End Developer](#)

Jan 2017 – Aug 2017

- Utilized **NLTK**, **scikit-learn** and **TensorFlow** to build classification models that automatically assigned categories to consumer complaints.
- Used **C#**, **Facebook Graph API** and **IBM Watson** to develop a feature for **ASP.NET** web application that enabled customers to consolidate reviews from their Facebook page and filter them based on sentiment.
- Built backend for a security-as-a-service web app using **Flask**, **GraphQL**, **JWT** and **Nmap**.

**Fidelity Investments** [Information Security Student](#)

May 2016 – Aug 2016

- Developed macros that consolidated and analyzed data on 855 employees to identify business continuity vulnerabilities using **VBA**, shortening a 2-week long process into a few seconds.

## PROJECTS

**csskrt-csskrt**

([adilasim.com/csskrt](http://adilasim.com/csskrt))

**Python** library that minimizes development time for HTML projects by automatically adding classes for CSS frameworks such as Bootstrap and Bulma. Listed as a featured project on Bulma's GitHub.

**Traffic Sign Classifier** ([adilasim.com/signs](http://adilasim.com/signs))

Worked with a team of 2 to build a convolutional neural network (**CNN**) to classify traffic signs using **Keras** and **scikit-image**. Achieved 98.6% accuracy.

**Swordless Knight** ([adilasim.com/sk](http://adilasim.com/sk))

Used **Unity (C#)** to develop 2D turn-based game with procedurally generated levels for PC/Mac. Created and animated sprites for units using **Piskel**.