

# ADIL ASIM

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

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

Cell: +1 (519) 504-7798

## EDUCATION

Candidate for Bachelor of Computer Science

Graduating May 2020

**University of Waterloo**

**Coursework:** Operating Systems, User Interfaces, OOP, Computer Security, Databases, AI, Computer Vision

## SKILLS

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

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

**Data:** Spark • Keras • TensorFlow • scikit-learn • scikit-image • Pandas

## EXPERIENCE

**Credit Karma** **Software Engineer Intern – Data**

Sept 2019 – Dec 2019

- Built a **hybrid recommender system** that leveraged matrix factorization and deep neural networks to improve recommendation click through rates.
- Designed and conducted experiments to determine the most optimal way to handle recommendations for newly introduced (cold-start) items.
- Built and deployed data pipelines on **Google Cloud Dataflow** using Apache **Beam** and **Airflow**.

**Hashtag Paid Inc.** **Software Developer Intern**

Jan 2019 – April 2019

- Designed and built an Amazon **Redshift** data warehouse to consolidate data from multiple sources, resulting in up to 9x 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**.

## 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.