

# ADIL ASIM

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## EDUCATION

Candidate for Bachelor of Computer Science  
[University of Waterloo](#)

Class of 2020

## EXPERIENCE

### Fast Access Blockchain

#### Blockchain Developer

May 2018 – Aug 2018

- Developed client-side web wallet using **Angular**. Wallet followed BIP best practices and included features such as single use deterministic addresses and **dApp** creation and interaction.
- Wrote **Solidity** smart contracts to thoroughly test abstraction layer responsible for EVM integration. Identified and contributed fixes for several critical bugs to core blockchain **C++** code.

### Perkin Elmer Inc.

#### Full-Stack / Machine Learning Developer

Sept 2017 – Dec 2017

- Designed and developed advanced simulation models for spectral data using **SciPy** and **NumPy**.
- Used **scikit-learn** to develop and optimize an **artificial neural network** to identify the elements present in a chemical solution with up to 98% accuracy. Used **Meteor.js** to create a multiplatform app to operationalize the model.

### Red Trait Ventures

#### Back-End Developer

Jan 2017 – Aug 2017

- Built backend for a web app that monitored services running on a system and alerted users in case of any discrepancies using **Nmap**, **Flask**, **GraphQL** and **JWT**.
- Used **C#**, **Facebook Graph API** and **IBM Watson** to develop premium feature for **ASP.NET** web application that enabled businesses to consolidate reviews and posts from their Facebook page and filter them based on sentiment.

#### Data Scientist

May 2017 – Aug 2017

- Utilized **NLTK**, **scikit-learn** and **TensorFlow** to build classification models that automatically assigned consumer complaints relevant tags to optimize user flow and decrease bounce rates.
- Developed prototype for a customer service chatbot using **TextBlob** that was able to communicate with users and extract relevant information from their complaints.

### Fidelity Investments

#### Information Security Student

May 2016 – Aug 2016

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

## PROJECTS

### csskrt-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.

### Swordless Knight

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

## SKILLS

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

**Web Development:** Flask • Angular • Node.js • Meteor.js • ASP.NET • JWT • GraphQL • HTML • CSS (Bootstrap)

**App Development:** Android • Swing

**ML/Data Science:** scikit-learn • TensorFlow • Pandas • Natural Language Processing (NLTK) • matplotlib