ADIL ASIM

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EDUCATION

Candidate for Bachelor of Computer Science   Class of 2020
University of Waterloo

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 – April 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