ADIL ASIM

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EDUCATION

Candidate for Bachelor of Computer Science — Graduating April 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
ML/Data Science: Keras • TensorFlow • scikit-learn • scikit-image • Pandas • NLTK

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.
- Developed data pipelines for behavioural features using **Google Cloud Dataflow, 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)**
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)
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.