Emad Ahmed

EXPERIENCE

Notable Labs, Data Science Intern 💸

May 19 - Aug 19

Foster City, CA

- Built SVM classifier to detect single cells from debris in flow cytometry experiments
- Performed dimensionality reduction with UMAP/t-SNE and achieved 88% accuracy
- Integrated classifier into data pipeline by implementing the scikit-learn estimator API, enabling automated flow analysis

Shopify, Software Engineering Intern [3] San Francisco, CA

Sep 18 - Dec 18

- Migrated Shopify Kit App (~ 200k merchants) from Amazon Web Services to Google Cloud Platform

Successfully migrated a 1.5 TB database from RDS to Google Cloud Storage

Shopify, Software Engineering Intern [3] Waterloo, ON

Jan 18 - Apr 18

- Built tool to import 1 million customers via async jobs on Google CloudStorage
- Reduced import time from 35 hours to 15 minutes by optimizing SQL inserts

PiinPoint, Software Developer Intern 🐶 Waterloo, ON



Architected report generation system including back-end API and front-end

Integrated Points of Interest with Routing APIs to get driving/walking times

Evertz, Software Developer Intern Burlington, ON

Sep 16 - Dec 16

- Built preview feature for digital replay video player fromscratch
- Optimized video player by limiting DB queries, reducing bandwidth usage by 20%

RESEARCH (uWaterloo)

KIMIA Medical Imaging Lab

Sept 18 - Dec 18

- Researched viability of different implementations for one-class classification problems to classify malignant and benign kidney whole slide images
- Built data pipeline using OpenSlide to process images with tiles and implemented various algorithms for Positive Unlabeled Learning such as PU Bagging, standard classifiers and two step approaches

PROJECTS

Pneumonia Detection from X-Ray Images Keras, Scikit-learn, pandas

- Classifies pneumonia from chest x-ray images with a CNN model using Keras
- Used InceptionV3 architecture and data augmentation to achieve accuracy of 82%

What's the Menu Node.js, Express, MongoDB, Google Maps API

- Displays crowd-sourced reviews on individual menu items at popular restaurants
- Built with JS ES6 including Async/Await, destructuring and arrow functions

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Education

University of Waterloo

Systems Design Engineering

Graduating April 2020

Skills

Data

Keras

TensorFlow

Scikit-learn

Matplotlib

flowCore

OpenSlide

NumPy

SQL

Languages

Java

Python

Ruby

JavaScript

C++

Tools

Google Cloud

AWS

Rails

React

Redux

Interests

Health Tech

ΑI

Social Impact Tech

Podcasts

Distributed Systems

Basketball