Harun Feraidon

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Education

B.S. Computer Science, University of Virginia May 2021
Relevant Courses: Internet Scale Applications, Cloud Computing, Databases

Experience

The Mitre Corporation, Software Engineer, McLean, VA May 2021 - current
- Building product infrastructure for a World Health Organization (WHO) sponsored application built for users worldwide who conduct verbal autopsies.
- Designed and deployed a pipeline that calculates the similarity of two satellite images, allowing U.S. government organizations to create satellite image datasets.
- Reduced latency by researching various neural network models, multi-threading for the feature extraction process, and utilizing nearest-neighbors graph search for the final results.
- Collaborated with technical and non-technical teams, gained experience in Python, Django, React, Machine Learning, Docker, and more.

Meta, Software Engineer Intern, Remote May 2020 - Aug. 2020
- Built backend infrastructure (Hack and Python) for auto-assigning labels on Facebook content data, replacing a human labeling process.
- Developed a feature to compute accuracy metrics for ML-based labels, enabling data scientist peers to analyze quality with those of human labelers.
- Saved a customer team $3000 per day by successfully transitioning them from a human-labeling process to an automated labeling system.

University of Virginia CS Teaching Assistant Aug. 2018 - Dec. 2019
- **Algorithms:** Assisted in problem set writing, grade coursework, and held weekly office hours to assist students with questions and course material.
- **Software Dev Methods (Java):** Held office hours for to assist students with coding assignments, prepared and hosted exam-review sessions.

Projects

Visible on GitHub

Washington D.C. Metro Commands March 2023
- Built a command line app for sending commands to get live information on the DC Metro, and published as a Python library.
- Returns the shortest path from any station by running Dijkstra's algorithm on a graph representation of the DC Metro system.

Habits Tracker Feb. 2023
- Built a web app to track your daily habits with contribution charts.
- Handles backend requests with Python Flask, displays frontend UI with React, manages database in MySQL, and authenticates users via Google. All containerized with Docker.

Analysis of Charlottesville Parking Tickets March 2021
- Employed machine learning classifiers to predict the probability of appealing a parking ticket in Charlottesville with an 80% accuracy rate.

Project for University's Engineering Open House Nov. 2020
- Programmed mini drones to play Pong in augmented reality using Python and Unity.
- Built for and demoed to UVA's Open House to prospective high school students.

Skills

Python, Java, JavaScript, React, Flask, Django, C++, Docker, MySQL