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 — Aug. 2021 - current
- Building full-stack 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 product infrastructure in Python and Hack for automation of 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.
- **Object Oriented Programming (Java):** Held office hours for to assist students with coding assignments, prepared and hosted exam-review sessions.

Projects

Washington D.C. Metro Commands Python Library — Mar. 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 — Mar. 2021
- Employed machine learning classifiers to predict the probability of appealing a parking ticket in Charlottesville with an 80% accuracy rate.

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

Skills

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