

ERIC SUN

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EXPERIENCE

Capital One

Software Engineering Intern

📅 June 2020 – Aug 2020 📍 McLean, Virginia

- Created a **dockerized python (flask)** web application that tracked the health of a data platform
- Built a data gathering API for datadog monitors (**python**)
- Created interactive visualizations displaying status over time (**Javascript D3**)
- Pushed our application through Capital One's CI/CD Pipeline (**Bogio, Docker**)

Ankura

Machine Learning / Backend Intern

📅 June 2019 – Aug 2019 📍 Washington D.C.

- Used **python (sklearn, nltk)** to build a Random Forest text classifier with 96% accuracy and 93% recall
- Used **python (re, multiprocessing)** to cut down 6 hours of sentiment analysis to 2.5 hours
- Implemented an application that collected emojis from documents and performed sentiment analysis (**python**)
- Developed an email header parser that detected the language of an email (**Java**)

Guidepoint

Data Analyst Intern

📅 June 2018 - Aug 2018 📍 New York, New York

- Made a **python** web scraper to gather medical sales data
- Cleaned and mapped data using **MySQL** and **Excel** to project healthcare company revenues with a 2% error
- Used **R, python**, and **Excel** to analyze data for significant points

SKILLS

Programming

Experienced:

Python • Java • R • MySQL • Javascript • OCaml

Familiar:

LaTeX • Matlab • C • C++ • Swift • React • Docker • Go

Other Skills

Word • Powerpoint • Excel • Outlook

Intermediate Chinese

EDUCATION

Cornell University

BA in Computer Science, Statistics

BA GPA: 3.533

📅 Aug 2016 – May 2020

MEng in Computer Science

MEng GPA: 3.878

📅 Jan 2020 – Dec 2020

PROJECTS

Cornell Data Science Project Team Pathways

- A web application displaying class pathways students might take at Cornell
- Developed algorithms to identify most common class pathways (**python**)
- Helped create the backend (**Go**)
- Created a sorting algorithm to better organize the graph visualization (**Javascript D3**)

Fake News Detection

- A project that classifies the relevance and stance of an article (**python**)
- Developed visualizations of our models (**Javascript D3**)
- Won a prize from Sandia National Labs at BOOM 2019

Wikipedia

- A project that classified the hierarchy of related Wikipedia articles (**python**)
- Created a graph visualization displaying a random walk through related Wikipedia articles (**Javascript D3**)

Personal and School Projects

Find My Food (School)

- iOS app to help users find free food
- Helped build the backend (**python, docker**)
- Connected frontend and backend (**Swift**)

NYC Restaurant Week Map (School)

- A project that maps all of the restaurants in NYC Restaurant Week and displays the number of violations they've had (**Javascript**)

Texas Hold 'Em (School)

- Developed the UI for a fully functioning poker game with support for AI and multiplayer. Played in terminal with simple graphics (**OCaml**)