

Education

#### **University of Texas at Austin**

GPA: 3.91 (Honors)

B.S. IN COMPUTER SCIENCE AND MATHEMATICS (DOUBLE MAJOR)

Aug. 2018 - May 2022

• Relevant Coursework: Neural Networks, Al, Data Mining, Natural Language Processing, Stochastic Processes, Game Theory

## Work Experience\_

Google Mountain View, CA

SOFTWARE DEVELOPMENT ENGINEER

Aug. 2022 - Present

- · Worked in health vertical within Search to drive user growth and add quality information to search results page for health-related queries
- Used map-reduce, web mining, machine learning, and mathematical heuristics to synthesize information from large 3rd-party datasets, which resulted in >600k new health care practitioners in google maps/search results and insurance acceptance information to >400k new locations
- · Led engineering team on critical hotline OneBox project, scoping out technical design, timelines, and delegation of work. Project involved rebuilding end-to-end infrastructure of main team feature from scratch in order to improve scalability and engineering efficiency.
- Expanded hotlines OneBox to >20 new locales, requiring data migrations, xFn coordination, and triggering classifier updates
- Rapidly iterated on 3-4 projects at a time, consistently delivering high quality C++ and Python code with >15k new lines of code written in one year.

Vana (Startup) San Francisco, CA

SOFTWARE DEVELOPMENT INTERN

Aug. 2021 - Jun. 2022

- Developed data collection processes and 3rd-party integrations on web app that were used by thousands of people
- · Used React, Hasura, RabbitMQ, Lambdas, and machine learning in rapid development of changing business objectives

Seattle, CA

SOFTWARE DEVELOPMENT INTERN

May. 2021 - Aug. 2021

- Built, tested, and deployed Outlook Add-in that assists hundreds of customer support issues
- · Used Azure Data Explorer, React, and machine learning in continuous delivery of quality application features

## **Extracurricular Activities**

### Texas Spacecraft Laboratory (TSL) - Pipeline Team Leader

Feb. 2020 - May 2022

SFEKER TEAM

- Student-driven research group dedicated to designing and building hardware and software for space missions, in conjunction with NASA.
- · Created full-pose estimation models ready for flight hardware along with streamlined data-generation and training pipeline

# **Projects**

## Predicting Stocks using Twitter Sentiments | Python (scikit-learn, pandas, nltk), Twitter API

- Utilized sentiment analysis from thousands of tweets to correlate the public opinion of a company with their stock prices
- · Used machine learning algorithms to predict day-to-day changes in stocks taking into account tweet information and stock variance

### Portfolio Website | React JS, Bootstrap, Github API

- Personal portfolio website that I created using React and Bootstrap
- Includes API calls to github that dynamically generates a display of my pinned repositories

#### Measuring Repetition in Speeches using LZW | Python, RStudio

- Analysis of how repetition has increased over time in US presidential speeches
- · Implemented the Lempel-Ziv-Welch compression algorithm in order to measure repition of words and phrases

## **Publications**

#### A Pipeline for Vision-Based On-Orbit Proximity Operations Using Deep Learning and Synthetic Imagery

Mar. 2021

**IEEE Aerospace Conference 2021** 

#### Real-Time, Flight-Ready, Non-Cooperative Spacecraft Pose Estimation Using Monocular Imagery

Feb. 2021

AAS SPACE FLIGHT MECHANICS MEETING 2021

# Skills\_\_

#### PROGRAMMING LANGUAGES

Python (numpy, pytorch, tensorflow, scikit-learn, pandas), Java, C++, Typescript, C#, SQL, x86, R

#### WEB/MOBILE DEVELOPMENT

Android Studio, Node JS, React, HTML, Bootstrap, Git, LTFX, .NET, AWS (EC2, S3, Lambda, SQS, SNS), Azure, Firebase

ABHIMANYU DHIR · RÉSUMÉ NOVEMBER 13, 2023