SHRAVAN RAVI

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EDUCATION 🎓

Bachelor of Science in Computer Science
University of Texas at Austin

📅 Aug. 2020 – May 2024

GPA: 4.00

Key Courses: Operating Systems, Computer Architecture, Data Structures, Linear Algebra, Intro to Probability and Statistics, Discrete Mathematics, Multivariable Calculus

EXPERIENCE 💼

Software Engineering Intern
Fidelity Investments

📅 June 2021 – August 2021

- Developed machine learning algorithm to recommend a suite of Fidelity apps based on customer interaction data and augmented the Fidelity market quote UI/UX
- Trained K-means clustering algorithm using scikit learn, designed mySQL database, wrote bash script to upload CSV data to SQL server, built Flask API to access model from Fidelity website, and developed project homepage using HTML and Bootstrap
- Developed new short interest data components using Angular, Javascript, and CSS

Technical Project Manager
ReView Technology

📅 September 2020 – September 2021

- Led team of 4 engineers and 1 designer to build computer vision system for mobile app.
- Developed mobile app in Javascript/Typescript and Python using React-Native, Firebase and Tensorflow
- Built CNN in PyTorch using Stanford's Recyclable dataset that reached 68% validation accuracy, then used transfer learning with MobileNet to reach 85% validation accuracy. Currently expanding model capabilities using Amazon Sagemaker

Full-Stack Developer
Chartfleau

📅 November 2020 – February 2021

- Contributed to website with graphics depicting a variety of fincancial market information
- Researched stock and cryptocurrency market trends under the mentorship of graduates supervisor from RBC Capital Markets
- Created visuals to support findings using Nivo, Javascript and React

SKILLS ⚙️

Python Java C C++ HTML CSS
Javascript Typescript React React-Native
Angular Node Django Flask MySQL
MongoDB Firebase PyTorch Tensorflow
Scikit Learn Numpy Pandas Matplotlib

PROJECTS 🧩

Unmasking Congress
JS, Python, React, Django

📅 Dec. 2020

- Developed website that examines the trends of congress members' views on masks, by running sentiment analysis on their tweets, in relation to COVID-19 statistics over the course of the pandemic

Planedemic
JS, Java, Python, React, Firebase, Node

📅 Dec. 2020

- Developed website that takes a start and destination airport to determine the six safest paths based on COVID-19 risk

Food Scrapes
JS, Java, Python, React, Firebase, Node

📅 Dec. 2020

- Build chrome extension to extract nutrition data from restaurant website and display easy-to-parse information on menu items like protein, carbs, fat, and sodium

RESEARCH 📓

Crowdsourcing Personalized Medicine: Applying Machine Learning to Unstructured Social Media Data to Improve Breast Cancer Patient Outcomes

Gregory Falco, **Shravan Ravi**, Modadeoluwa Ogunmuyiwa, and Caleb Li

📅 July 2021   📍 IEEE/ACM CHASE

A Wearable Electromagnetic Articulograph (EMA) for Silent Speech Interface

Shravan Ravi, Beiming Cao, Nordine Sebkhi, Arpan Bhavsar, Omer T. Inan, Wen Xu, and Jun Wang

📅 August 2021   📍 Motor Speech Conference

Visually Adaptive Geometric Navigation

Shravan Ravi, Shreyas Satewar, Gary Wang, Xuesu Xiao, Garrett Warnell, Joydeep Biswas, and Peter Stone

📅 September 2021   📍 IEEE ICRA