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

📅 Sep. 2020 – Present

- 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

Co-Founder & Lead Developer
Alois Software

📅 May 2020 – Present

- Launching start-up focused on building a social media platform to support Alzheimer's caregivers
- Designing and developing mobile app along with necessary deep learning model using Figma, React-Native, and Tensorflow
- Built and designed business website in Javascript using Next.js

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

CV-APPLD: Computer Vision based Adaptive Planner Parameter Learning from Demonstration
Shravan Ravi, Shreyas Satewar, Gary Wang, Xuesu Xiao, and Peter Stone

📅 September 2021   📍 IEEE ICRA

Near Real Time Involuntary Human Behavior Decoding for Robot Hallway Navigation
Shreyas Satewar, **Shravan Ravi**, Alekhya Kuchimanchi, Justin Hart, and Peter Stone

📅 October 2021   📍 ACM/IEEE HRI