

SHRAVAN RAVI

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shravan-ravi

ShravanRavi2002

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

Plannedemic

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 Sebkh, 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

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