

SHRAVAN RAVI

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in shravan-ravi

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EDUCATION



Bachelor of Science in Computer Science

University of Texas at Austin

📅 August 2020 – May 2023

GPA: 4.00

Relevant Coursework: Operating Systems, Computer Architecture, Data Structures, Intro to AI, Neural Networks, Algorithms, 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 financial 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



Alois Software

JS, Python, React, Node, MongoDB, PyTorch

📅 March 2020

- Developing mobile application and natural language processing system for social media platform to support Alzheimer's caregivers by leading team of 9: 2 Co-Founders, 1 Designer, 1 Business Analyst, 1 Tech PM, and 4 Engineers

Fretail Hackers

JS, Python, React, Node, MongoDB

📅 January 2021

- Member of UT Austin hackathon organizer team, responsible for development. Worked on chat application for main HackTX website and developed boilerplate projects for hackathon participants

Unmasking Congress

JS, React, Node, MongoDB

📅 December 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

RESEARCH



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

📅 February 2022

📍 Conference on Motor Speech

Visually Adaptive Geometric Navigation

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

📅 May 2022

📍 IEEE ICRA

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