Shravan Ravi

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Education

The University of Texas at Austin	**August 2020 – May 2023**
Bachelor of Science in Computer Science	**GPA: 4.00**

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

Experience

Fidelity Investments	**June 2021 – August 2021**
Software Engineer Intern	**Westlake, Texas**

- 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

Review Technology	**September 2020 – September 2021**
Technical Project Manager	**Austin, Texas**

- Developed mobile app in Javascript/Typescript, React-Native, and Firebase
- Led team of 4 engineers and 1 designer to build computer vision system for mobile app using Python 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.

Chartfleau	**November 2020 – February 2021**
Full Stack Developer	**Austin, Texas**

- Contributed graphs and other front end components to website 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

Projects

Alois Software | *Javascript, Python, React-Native, Node, MongoDB, PyTorch*   **March 2020 – Present**

- 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

Freetail Hackers | *Javascript, Python, React, Node, MongoDB*   **January 2021 – Present**

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

Planedemic | *Javascript, Python, React, Django*   **December 2020 - December 2020**

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

Technical Skills

Languages: Python, Java, Javascript/Typescript, HTML/CSS, C/C++, SQL
Technologies/Frameworks: React, Node, MongoDB, Firebase, Flask, PyTorch, Tensorflow, Angular, Django,

Research

- **S. Ravi**, B. Cao, N. Sebkhi, A. Bhavsar, O. Inan, W. Xu, J. Wang, "A Wearable Electromagnetic Articulograph (EMA) for Silent Speech Interface," in *Conference on Motor Speech.* Madonna Rehabilitation Hospitals 2022 (under review)
- **S. Ravi**, S. Satewar, G. Wang, X. Xiao, G. Warnell, J. Biswas, P. Stone, "Visually Adaptive Geometric Navigation," in *IEEE International Conference on Robotics and Automation.* IEEE 2022 (under review)
- G. Falco, **S. Ravi**, M. Ogunmuyiwa, C. Li "Crowdsourcing Personalized Medicine: Applying Machine Learning to Unstructured Social Media Data to Improve Breast Cancer Patient Outcomes," unpublished