Sourish Wawdhane

Electrical & Computer Engineering, UT Austin

Github: https://github.com/SourishW, Linkedin: /in/sourishw
Languages: C/C++, Python, Javascript, HTML, CSS, Java

Education:

Sophomore in Electrical and Computer Engineering, University of Texas at Austin (GPA: 3.92)

- Engineering Honors & T. W. Whaley, Jr. Friends of Alec Endowed Engineering Scholarship Recipient.
- Relevant Coursework: Software Design and Implementation I, Embedded Systems, Intro to Computing, Discrete Mathematics.

Experience:

Engineering Expo Committee (UT): Publicity and Web Division Member, Company Page: expo.engr.utexas.edu

- Engineering Expo is the fall career fair for UT Austin's Cockrell School of Engineering, 6000+ students, and 100s of companies.
- Led web development and maintained the event's landing page using HTML and CSS.
- Wrote documentation and guides for maintenance and a step-by-step guide for SSH terminal access for website maintenance.

Personal Projects:

Autonomous Self-Driving Car Intersection Management System, Project Simulation Link on sourishw.com:

- Engineered a four-direction intersection management system for autonomous vehicles, responding to traffic dynamically.
- System empowers autonomous vehicles to safely weave through each other without stopping at intersections.
- Implemented different algorithms for managing the intersection, optimizing for efficiency, comfort, and simplicity respectively.
- Project simulation is responsive to either user-controlled traffic rates, or automated artificial traffic.

PVP Tanks, an Embedded Systems Game for TM4C, Project Demo Link: youtu.be/W4_69AYKkgw:

- Constructed a handheld two-player tanks game for TI TM4C using ARM and C/C++, designed constrained to limited ROM (<128KB).
- Developed drivers for timer-triggered digital to analog audio output, an LCD screen, two analog and four digital user inputs.
- Designed game logic to manage sprites including tanks, bullets, and score, engineered event triggered audio output.

Quarantine Support, Int'l Hackathon Winning Application, Project Demo Link: devpost.com/software/quarantine-support-application:

- Engineered a COVID risk assessment and medical contact application for detection and treatment of elevated COVID symptoms.
- Expedited doctor-patient communication through chat/email portal and hospital locator tool.
- Contributes facets of entertainment and mindful guidance, protected by a local login verification system.

ASTERBOT: the AI Stock Trading Equity Recommendation Bot:

- Deployed trading bot using fintech and sentiment analysis to recommend stocks with the greatest predicted return on investment
- Deployment of the algorithm in a trading environment resulted in the model outperforming the S&P 500 by an average of 0.031% per month from July 2020 to December 2021.

Certifications, Skills, and Honors:

Certifications:

- AWS Cloud Certified Practitioner (2022): AWS Mgmt. Console, Cloud Arch. Principles, App Development, AWS Product Knowledge.
- IBM Machine Learning with Python (2021): ML Modeling, Model Implementation, Visualization, Model Analysis, Web Scraping.
- IBM Databases & SQL with Python (2020): Foundational SQL Knowledge, SQL queries from Jupyter Notebooks.

Honors/Awards:

- T. W. Whaley, Jr. Friends of Alec Endowed Engineering Award Recipient: Academic merit-based scholarship. (2021)
- 5th place, Petroleum & Geochemical Engineering Hackathon: ML prediction of oil well production with 3D geospatial data. (2022)
- 2nd place, Helix Hacks International Hackathon, Project: Quarantine Support. (2020)

Skills:

- Collaborative Framework Git & GitHub, Linux OS Command Line, Agile Framework, AWS Tools & Services.
- Knowledge of Programming Paradigms: High Availability, Microservices Approach (modularity), Project Documentation.

Miscellaneous Interests:

Instruments I Play: Cello, Piano, Tabla || Sports: Table Tennis, Swimming || Favorite Genre of Music: Western Classical Music