

Sourish Wawdhane

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Education:

Sophomore in Electrical and Computer Engineering - University of Texas at Austin

- T. W. Whaley, Jr. Friends of Alec Endowed Engineering Scholarship Recipient, awarded to
- Engineering Honors, GPA: 3.92, Relevant Coursework: Software Design and Implementation, Embedded Systems, Introduction to Computing, Discrete Mathematics.

Relevant Certifications:

- AWS Certified Cloud Practitioner, Amazon Web Services (AWS)
 - IBM Data Science Professional Certification, IBM (Coursera)
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Experience:

Engineering Expo Committee, Publicity and Web Division - February 2022 – Present

- Engineering Expo is the first official event of the fall recruiting season in the Cockrell School of Engineering, with over 6000 candidates and 100s of companies attending each year.
 - As a member of the expo committee, I designed web platforms for employer/student registration, helped coordinate event logistics, and organized social media outreach for the event.
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Projects:

Voyage: An AI Vacation Travel Itinerary Planner

- Content-based recommendation system trains on prior travel experiences and predicts the probability of personality fit for future attractions/locations
- Voyage logistics engine coordinates stops and plans flights, hotels, and attractions according to user-set budgets and matched to user profiles. Routes minimize time wasted in transit

Quarantine Support: International Hackathon Award-Winning 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

ASTERBOT: the AI Stock Trading Equity Recommendation Bot

- Deployed algorithmic trading bot using financial technical analysis and machine learning principles to recommend stocks with the greatest predicted return on investment.
- Deployment of the algorithm in 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.

Bidirectional Traffic Light Embedded System Design

- Engineered a bidirectional traffic light system for pedestrians and automobiles using a Moore Finite State Machine. Optimized FSM to decrease waiting time and guarantee safe transit.
- Program executed on TM4C123 microcontroller with detectors and LEDs on a circuit as a working proof of concept. Program written in ARM Cortex-M Assembly language.

CRM (Customer Relationship Management) and Inventory System

- Wrote an inventory and CRM database system for a hypothetical small company to track customer purchasing patterns and manage item inventory from scratch using C.
 - Designed and interacted with database to authorize and process customer transactions.
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Skills

- Languages: Python, C, Java, C++, ARM Assembly, SQL, HTML/CSS, JavaScript
- Soft Skills: Project Documentation, Team Collaboration/Coordination, Project Delivery Management
- OS Linux command line, SSH, collaborative software development tools (Git, GitHub), Agile Framework
- AWS Tools & Knowledge: AWS Management Console, Cloud architecture principles (high availability, microservices approach, etc.), cloud security and account privilege principles, application development
- ML modeling, implementation, visualization, analysis, interpretation, reporting, web scraping