Sourish Wawdhane

Electrical & Computer Engineering, UT Austin
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Education

University of Texas at Austin: *Sophomore in Electrical and Computer Engineering, (GPA: 3.97)*   August 2021 - Present
- Engineering Honors & T. W. Whaley, Jr. Friends of Alec Endowed Engineering Scholarship Recipient.
- Relevant Coursework: Software Design and Implementation I, II, Embedded Systems, Intro to Computing, Discrete Mathematics.

Obra D. Tompkins High School: *Distinguished Achievement Diploma in STEM, (GPA: 4.78, Ranked 16th/945)*   August 2017 – May 2021
- SAT: 1540, National Merit Commended Scholar. Founded National Science Bowl Club chapter, Officer in National Honor Society.

Professional Experience

Incoming Fall Internship @ Performist: Software Engineering Intern   Starting September 2022
- Preparing to work on Backend Development and DevOps for the Marketing-Tech Company.

Engineering Expo Committee (Cockrell School of Engineering, UT): *Publicity and Web Division Member*   February 2022 - Present
- Engineering Expo is the fall career fair for UT Austin's Cockrell School of Engineering with 6000+ students, and 100s of companies.
- Led web development and maintained the event's landing page using HTML and CSS, link: expo.engr.utexas.edu
- Wrote documentation and guides for maintenance and a step-by-step guide for SSH terminal access for website maintenance.

Herb Kelleher Entrepreneurship Center (McCombs School of Business, UT): *Student Associate*   August 2022 - Present
- Orchestrated event logistics for networking and professional events for McCombs School of Business.
- Coordinated administrative work, including maintaining a CRM database, and facilitated communications with department.

Engineering Academic Advising (Cockrell School of Engineering, UT): *ECE Talent Mentor*   August 2022 - Present
- Mentored for the ECE Talent Success Program, designed to support students with academic stresses navigating college.

Skills and Interests

AWS, Azure, C/C++, Git, GitHub, HTML & CSS. REST, Java, Javascript, Linux OS, MatplotLib, Python, React, SQL, Scikitlearn

Certifications and Honors

Certifications:
- **AWS Certified Developer Associate (2022):** *Proficient in Coding, Debugging, & Deploying Cloud Solutions on AWS.*
- **AWS Cloud Certified Practitioner (2022):** *AWS Mgmt. Console, Cloud Arch. Principles, 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 (2021):** *Academic merit-based scholarship.*
- **5th place, Petroleum & Geochemical Engineering Hackathon (2022):** *ML prediction of oil well production with 3D geospatial data.*
- **2nd place, Helix Hacks International Hackathon (2020),** *Project: Quarantine Support.*

Relevant Work

Service Locker, License and API Management Dashboard Service, Project Demo Link: youtu.be/bHYdCf4uRP8:
- Implemented a management dashboard to track large numbers of APIs exposed in backend services and across environments.
- Backend features authenticated data retrieval using the MSAL and Azure AD to sign in and authorize users.
- Integrates Microsoft Graph for Office 365 API, developed using React, Javascript, CSS, HTML, and deployed on Microsoft Azure.

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.

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.