Tushar Wani

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PROJECTS

TWCGateway - On-boarding web application for The Warren Center, a non-profit organization
- Collaborated with two different teams of 6 people over two semesters
- Created frontend using **ReactJS**, and **TailwindCSS** for styling
- Created backend using **ExpressJS**, and **Prisma** as the ORM for a **dockerized PostgreSQL** database
- Deployed on **AWS S3** and **AWS Cloudfront**
- Replaced 90% of cumbersome pen-based processes into the web interface
- Enhanced data accuracy by centralizing the data through digitizing the on-boarding process

Comet Marketplace - Second-hand product marketplace website exclusively for UTD students and faculty
- Collaborated with a team of 8 people over a semester
- Created the frontend using **ReactJS**, backend using **ExpressJS**, and utilized a **PostgreSQL** database
- Implemented the ability to upload photos to the **ExpressJS** server
- Created real-time messaging functionality using **WebSockets** and **Socket.IO** library
- Improved over the UTD mobile app by creating search filters, bookmarks, and a better chat experience
- Enhanced resource accessibility for UTD students by creating a user-friendly platform to find/sell items

VOLUNTEERING

EPICS Mentor - Guiding teams creating software for non-profit organizations   June 2024 - May 2025
- Guided 5 teams over three semesters
- Lead agile-like two week long sprints and used **GitHub Projects** to keep track of progress
- Diligently reviewed code to ensure codebase coherency and to mitigate any feature regression
- Conducted workshops on **Auth0** and **Prisma** talking about motivations for use, pro's/con's, and how-to's for both
- Fostered an open environment to make the teams comfortable to experiment during development
- Fostered accountability by encouraging team members to be proud of their work and celebrated accomplishments
- Delivered two of the five on-going projects over the three semesters

Short-Term Working Group - Created resources for Software Engineering course   August 2024 - December 2024
- Collaborated with a team of 7 people over a semester
- Created a 14+ minute long video presentation giving a bird's-eye view of the components of web development
- Created thumbnails for all videos created by teammates
- Attended regular meetings and kept extensive meeting notes to keep the team on-track with the current TODOs
- Facilitated in making student on-boarding to web development concepts easier
- The team compiled a playlist of 6 videos about the core concepts of web dev: https://bit.ly/stwg-wevdev-playlist

History of Aviation Archives   January 2023 - May 2023
- Processed and prepared the complete John Wiren Collection, totaling 5.7 linear feet
- Independently organized and cataloged available primary sources for preservation
- Authored detailed collection entry documents for archival documentation and reference

COLLEGIATE INVOLVEMENT

Axxess Hackathon | *Overall 2nd Place*   February 2024
- Developed a web app using **ReactJS+Django** to help COPD patients monitor their symptoms
- Used **k-means ML algorithm** on a COPD dataset from **Kaggle** to assign scores for severity of their symptoms

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, PostgreSQL, MySQL, SQLite
Frameworks: NuxtJS, React, Vue, TailwindCSS, ExpressJS, PrismaORM, Auth0
Developer Tools: Git, Docker, VS Code, IntelliJ JetBrains, AWS S3, AWS Cloudfront

EDUCATION

Bachelor of Science in Computer Science   August 2022 - May 2026
University of Texas at Dallas | GPA - 3.8 | One year of concurrent Masters (Fast Track Program)