Tushar Wani

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Passionate about crafting reliable software that makes the lives of my users easier and more enjoyable.

EXPERIENCE

CBRE - Software Engineering Intern — Jun 2025 – Aug 2025
- Optimized ETL pipeline, cutting execution time by 96%, enabling more timely reporting
- Built and deployed APIs to expose data to **ServiceNow**, collaborating with the cloud team on **Azure** integration
- Rapidly learned **Microsoft SQL Server** & **T-SQL** with the help of internal AI tools
- Contributed production-ready solutions in a **Kanban Agile** environment

PROJECTS

TWCGateway - Onboarding web application for The Warren Center (TWC)
- Built a full-stack onboarding system (**ReactJS**, **ExpressJS**, **Prisma**, **PostgreSQL**) deployed on **AWS S3/CloudFront**
- Digitized pen-based workflows, replacing 90% of manual processes and improving data accuracy via centralized records

Generative Coverless Steganography - Senior design project implementing a novel data hiding method from a research paper
- Implemented in **Python** using the **SDXL Turbo image model** to encode secret data into the features of generated images
- Achieved 100% extraction accuracy, validating robustness against attacks, and contributed a new open-source tool

Comet Marketplace - Pre-owned marketplace for UTD community
- Developed a prototype marketplace with real-time chat (**WebSockets, Socket.IO**) and local photo uploads
- Improved usability by implementing critical features like advanced search filters, bookmarks, and improved messaging

AWARDS

Axxess Hackathon - 2nd place — Feb 2024
- Developed a web app using **ReactJS** and **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

HackUTD - 3rd place — Nov 2023
- Developed a website to buy stake in houses and other properties
- Used a **Vision-and-Language Transformer (ViLT)** model fine-tuned for property evaluation based on photos

LEADERSHIP

EPICS Mentor - Coached teams building software for non-profits — Jun 2024 - Dec 2025
- Fostered collaboration and accountability across teams
- Implemented agile practices with **GitHub Projects** and ensured quality via **pull request** reviews
- Led workshops on **Auth0** and **Prisma**, emphasizing practical use and tradeoffs

Short-Term Working Group - Creating resources for the Software Engineering course — Aug 2024 - Dec 2024
- Produced a 14+ min video and compiled a playlist of 6 tutorials simplifying core web development concepts
- Improved the student learning experience and simplified the semester-long project

History of Aviation Archives — Jan 2023 - May 2023
- Processed and cataloged the 5.7 linear ft John Wiren Collection for long-term preservation
- Authored detailed archival documentation to enhance accessibility of primary sources

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, C#, SQL (PostgreSQL, SQLite, SQL Server)
Frameworks: NuxtJS, NextJS, Vue, React, TailwindCSS, ExpressJS, PrismaORM
Developer Tools: AWS S3, AWS Cloudfront, Docker, Git, GitHub Projects

EDUCATION

Masters of Science in Computer Science — Aug 2025 - May 2026
University of Texas at Dallas

Bachelor of Science in Computer Science — Aug 2022 - May 2025
University of Texas at Dallas