# TALHA NADEEM

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## Education

**University of Texas at Arlington** — **Aug. 2022 – Present**
*Honors Bachelor of Science in Software Engineering* — *Arlington, Texas*

## Projects

**Shell Development Projec** | *C* — **September 2024**
- Developed a custom command-line shell in C
- Implemented built-in commands (cd, exit, quit) with error handling for robust execution
- Integrated process control and redirection using fork () and execvp () for efficient command parsing

**MavPads — Student Housing Web App** | *Node.js, Tailwind CSS, MongoDB, Clerk, Vercel, Framer-Motion* **April 2025**
- Built a full-stack web app to help UTA students explore and review off-campus housing options around campus.
- Integrated MongoDB for scalable data storage and efficient querying of apartment listings and user reviews.
- Designed a clean, responsive UI with Tailwind CSS, focusing on ease of navigation and mobile compatibility.

**Pakistan Student Association Website** | *Node.js, Tailwind CSS, Vercel, Framer-motion* **January 2025**
- Developed and deployed a responsive web application to centralize information about PSA events, membership, and organizational updates
- Integrated features such as event listings with RSVP links with Stripe Payment API, and a contact form to streamline communication
- Hosted the application on Vercel, enabling continuous deployment and efficient performance optimization.

## Achievements

**2nd Place – MoodSong – AI-Powered Wellness Web App** | *HackDAY UTA 2025* — **March 2025**
- Developed a full-stack wellness web app that uses facial expression recognition to recommend mood-based songs using Gemini AI.
- Integrated a real-time community forum feature, enabling users to share feelings, support others, and build emotional connections.
- Utilized Node.js for backend logic, MongoDB for data storage, and Tailwind CSS for responsive and modern UI design

**UTA DATATHON Challenge WINNER — HealthIntelligences–*AI-Powered Health Data Analysis*** **April 2025**
Node.js, React( Typescript), Tailwind CSS, MongoDB, Clerk, Vercel, Gemini API
- Engineered a comprehensive web platform to analyze and visualize personal and community health data, using AI-powered risk assessments and geospatial dashboards
- Integrated Google Gemini API to deliver personalized health insights and predictive risk forecasting based on uploaded datasets and real-world health APIs
- Implemented secure user authentication with Clerk, allowing users to manage personalized dashboards and access community health resources in a privacy-conscious environment

## Technical Skills

**Languages**: Java, C, HTML/CSS, JavaScript, SQL, Typescript,
**Technologies/Tools**: VS Code, Eclipse, Google Cloud Platform, Android Studio, Postman, React, Node.js, Next.js

## Leadership / Extracurricular

**PLTL Leader (Peer Led Team Learning)** — **Spring 2023 – Present**
*MATH 1426 (CALC I* — *University of Texas at Arlington*
- Guide students through core concepts of Calculus I, collaborative learning through peer-to-peer discussions
- Support students in developing critical thinking and analytical skills for tackling calculus problems

**Pakistan Student Association** — **August 2024 – Present**
*General Secretary* — *University of Texas at Arlington*
- Coordinated cultural and social events celebrating Pakistani heritage, managing logistics, team roles
- Executed high-impact events that enhanced community involvement and cultural engagement