Adil Waheed

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EDUCATION

University of Texas at Austin — Expected May 2028
B.S. in Computer Science — *Austin, TX*
- **GPA: 3.8**.

EXPERIENCE

Software Engineering Intern — May 2025 – Aug 2025
Houston, TX
- Developed and deployed a scalable food pantry system using **Django**, **PostgreSQL**, and **AWS S3 Buckets** to manage client intake, inventory, and visit tracking.
- Built and maintained a public-facing website using **Next.js**, reaching **3,000+ monthly visitors**, with an AI chatbot (vector embeddings + RAG) to improve support access.
- Automated internal workflows for finance, client intake, and case tracking, eliminating manual spreadsheets and reducing staff workload by **50%**.

Machine Learning Researcher – Soil Moisture Forecasting Project — May 2025 – Present
Austin, TX
- Developed a deep learning pipeline using **10+ architectures** (LSTM, CNN, Transformers) for soil moisture forecasting, achieving a **97.9% accuracy improvement** over baseline methods on **300K+ hourly measurements**.
- Engineered data preprocessing (missing value handling, temporal features) and cross-station validation on a 6-year time series dataset (2015–2021).
- Validated model performance for drought prediction and water resource planning.

Undergraduate Researcher – Hurricane Helene Impact — Dec 2024 – May 2025
Austin, TX
- Led research on Hurricane Helene by analyzing data from **140+ counties**; collaborated with officials on power outage datasets and restoration timelines.
- Scraped, cleaned, and processed **8,000+** YouTube transcripts/comments using Python and the YouTube API for sentiment analysis.
- Built a machine learning pipeline in **PyTorch** to classify emotions with **90%+ accuracy**.

Software Engineer – Texas Convergent — Jan 2025 – May 2025
Austin, TX
- Collaborated with PMs and designers to align technical solutions with user needs; iterated weekly to enhance usability and engagement.
- Built and led development of **BounceBack**, a **React Native + Firebase** app that helps socially isolated users set goals, discover activities, and join support groups.

PROJECTS

InReach | *React, Flask, OpenAI*
- Developed a full-stack platform that automates cold outreach for internships/jobs using **GPT APIs** to generate personalized emails from resumes and intent.
- Integrated **Gmail API** for authenticated bulk delivery; adopted by **2,000+ students**.

RoomSync | *React Native, Flask, PostgreSQL*
- Created a mobile app for roommates to manage chores, expenses, and shared tasks, with user authentication, group logic, and persistent storage.

SKILLS

Languages: Python, JavaScript, Java, SQL, HTML, CSS
Frameworks & Libraries: React, React Native, Node.js, Flask, Firebase, Django, PyTorch, TensorFlow, NLP
Tools & Technologies: AWS, Git, Postman, REST APIs, Linux