

AYUSH SHIVHARE

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Education

The University of Texas at Dallas

B.S. Computer Science, GPA 3.79 — Dean's List: Fall 2023

Dallas, TX

Expected December 2026

- **Coursework:** Operating Systems, Machine Learning, Database Systems, Data Structures and Algorithms
- **Eligibility:** Authorized to work in the U.S. without sponsorship

Technical Skills

Languages/Frameworks: Python, Java, JavaScript, SQL, **React**, HTML, CSS

Back-End: Node.js, REST APIs

DevOps & Testing: Docker, GitHub Actions, unit/integration tests, logging

Cloud: GCP (Cloud Run, Firestore)

Data: Pandas, ETL, basic data pipelines

Certifications: Postman Student Expert, CodePath Technical Interview Prep

Experience

Potion Cast

Sep. 2025 – Oct. 2025

Back-End Architecture Intern

Austin, TX

- Led end-to-end software and cloud infrastructure development for the "Magic Eye," a physical, interactive **conversational AI** attraction.
- Engineered the real-time AI pipeline from the ground up, integrating **OpenAI** and **ElevenLabs** APIs with **Firebase** and **Google Cloud** backend systems.
- Optimized **REST API** endpoints for high-traffic, real-time data processing, successfully bridging complex cloud architecture with a physical user experience for a live Halloween event.
- Technologies: Python, Firebase, Google Cloud, REST APIs, OpenAI, ElevenLabs

Leadership & Extracurriculars

Nebula Labs | React, Vercel, CI/CD

Aug. 2024 – Present

Head of Engineering [Leadership]

Richardson, TX

- Led the development and deployment of scalable full-stack web applications, supporting over **40,000 users** via cloud infrastructure.
- Managed CI/CD pipelines and code reviews, ensuring high-quality releases aligned with **DevOps best practices**.
- **Expanded community engagement by 50%** through developer enablement workshops on **APIs, databases, and AI tools** fostering a collaborative learning environment.

Association for Computing Machinery | Microsoft Suite

Dec. 2024 – Present

Mentor Program Officer [Leadership]

Richardson, TX

- **Situation:** New student developers unfamiliar with teamwork and deployment; **Task:** hands-on mentorship. **Action:** led workshops on Developer Tools (**Git**), API design. **Result:** onboarded 80+ students.

Projects

UTD Trends | Python, OpenAI, pandas, React, Node.js

Aug. 2024 – Present

- Architected a **data retrieval and analysis pipeline** to extract student reviews from RateMyProfessor, transforming raw unstructured text into a dataset for sentiment evaluation.
- Applied **unsupervised learning** techniques to identify correlations between qualitative review text and quantitative metrics (e.g., student grades, "would take again" status) to optimize prompt engineering and sentiment accuracy.
- Developed a modular **Python** backend that processes these correlated data attributes, reducing manual sentiment review time and providing structured insights for the Nebula Labs product suite.
- **Link:** github.com/UTDNeblua/utd-trends

Postman & GitHub Workshops | React, Node.js, Tailwind

Apr. 2025 – Nov. 2025

- Developed a modular boilerplate for **REST API** prototyping and delivered workshops to 200+ participants, improving developer onboarding.