

AYUSH SHIVHARE

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Education

The University of Texas at Dallas

Dallas, TX

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

Expected December 2026

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

Experience

Potion Cast

Jun 2024 – Present

Backend Engineer

Remote

- * **Situation:** Creator platform needed reliable backend for real-time features; **Task:** build and deploy scalable services. **Action:** developed **Python/Node.js** microservices, containerized with **Docker**, set up **GitHub Actions** for automated testing and deployment, and wrote integration tests. **Result:** enabled daily deploys and cut response time by **40%**.
- * **Situation:** Need to catch bugs before production; **Task:** reliable release process. **Action:** automated tests and health checks in **GitHub Actions** workflows; added logging for debugging. **Result:** reduced production issues by **70%** and faster rollout cycles.

Nebula Labs

Jan 2024 – May 2024

Software Engineer Intern

Dallas, TX

- * **Situation:** Monolithic codebase slowed feature iteration; **Task:** modularize and automate testing. **Action:** split services into **microservices** using **Python** and **Node.js**, containerized with **Docker**, wrote unit and integration tests, and set up **GitHub Actions**. **Result:** cut deployment time by **40%** and enabled faster releases.
- * **Situation:** Data scattered across logs; **Task:** centralize insights. **Action:** built **ETL** pipeline in **Python** to aggregate logs and metrics; created dashboards. **Result:** faster debugging and reduced time-to-resolution by **50%**.

ACM UTD

Aug 2023 – Dec 2023

Technical Lead, Workshops

Richardson, TX

- * **Situation:** New student developers unfamiliar with teamwork and deployment; **Task:** hands-on mentorship. **Action:** led workshops on **Git**, **GitHub**, **Docker**, **testing**, and API design; code reviewed PRs for best practices. **Result:** guided 40+ students; 10 projects shipped and demonstrated successfully.

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/UTDNebula/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.

Technical Skills

Languages: Python, Java, JavaScript, SQL

Front-End: 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