AYUSH SHIVHARE

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Education

University of Texas at Dallas — Graduating December 2026

B.S. in Computer Science — GPA: 3.77 — Dean's List: Fall 2023 — *Richardson, TX*

Relevant Coursework: Machine Learning, Database Systems, Data Structures and Algorithms, Software Engineering

Technical Skills

Languages: Python, Java, JavaScript, SQL
DevOps & Tooling: CI/CD, Docker, Git, Vercel, CI workflows, Agile
Cloud & Services: Google Cloud, Firebase, REST APIs, Serverless deployment
Frameworks & Data: React, Node.js, pandas, OpenAI APIs

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 — Aug. 2024 – Present

Head of Engineering [Leadership] — *Richardson, TX*

- Led the development and deployment of scalable full-stack web applications, supporting over **20,000 users** via cloud infrastructure.
- Managed CI/CD pipelines and code reviews, ensuring high-quality releases aligned with **DevOps best practices.**
- Drove **agile** project cycles with weekly standups & sprint planning.
- Technologies: React, Vercel, Docker, Git, CI/CD, Agile

Association for Computing Machinery (ACM) — Dec. 2024 – Present

Mentor Program Officer [Leadership] — *Richardson, TX*

- Mentored students on developing cloud-compatible projects involving APIs and distributed systems.
- Guided project architecture focusing on scalable design and best practices for backend development.

Projects

UTD Trends | *Python, OpenAI, pandas, React, Node.js* — Aug. 2024 – Present

- Architected an **AI-powered** analysis pipeline in **Python** to perform sentiment analysis and topic summarization by interfacing with the **OpenAI** API, reducing manual review time by **90%**.
- Utilized **pandas** for **data analysis** and batch processing, enabling the transformation and asynchronous routing of **2,000+** reviews to the API and structuring the returned JSON for the frontend.
- Enhanced decision-making by providing actionable data insights, successfully **communicating** findings that led to a **new feature prioritization** for the user experience team.

Postman & GitHub Workshops | *React, Node.js, Tailwind* — Apr. 2025 – Nov. 2025

- Developed a modular **React** and **Node.js** boilerplate for **REST API** prototyping, mirroring API-first design principles.
- Delivered interactive developer workshops improving understanding of **REST APIs**, CI/CD pipelines, and **GitHub** workflows for 200+ participants.
- Updated workshop curricula to emphasize cloud integration and scalable service deployment.