

Tegh S. Bindra

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EDUCATION

William P. Clements High School

Sugar Land, TX

High School Diploma, Summa Cum Laude

Aug. 2022 – May 2026

- Relevant Coursework: AP Computer Science A, AP CS Principles, AP Calculus BC, Multivariable Calculus, AP Statistics, AP Physics C

EXPERIENCE

Product Developer & Founding Engineer

Apr. 2025 – Sep. 2025

Cognigauge

Remote, United States

- Developed backend features for a cognitive-performance web app, transforming raw interaction data (keystrokes, click patterns) into real-time insights.
- Built Python-based data pipelines and dashboards supporting secure time-series tracking across thousands of early users.
- Collaborated with founders on engineering priorities, feature testing, and product refinement for a 3,000+ user waitlist.

Technology Intern

2023 – Present

DLM Fund @ Saheb Sabharwal Office

Remote

- Developed internal tools and AI agents for an early-stage \$100M+ search fund, reducing processing errors by about 40%.
- Implemented data workflows and backend services that improved investment analysis turnaround time.
- Presented engineering findings in biweekly strategy sessions with partners and contributors.

Research Fellow

May 2025 – Present

Algoverse AI

Remote

- Co-authored “GUARD,” a curiosity-driven reward debiasing system that reduced model scoring bias by ~12%.
- Ran experiments on job-market and lending datasets; debugged training runs and documented evaluation methods.

Research Assistant, RZWQM Tool

2023

University of Iowa

Remote

- Calibrated the Root Zone Water Quality Model (RZWQM) to test irrigation and nitrogen strategies for sustainable agriculture.
- Helped develop a cloud-based scenario tool; trial farms recorded ~15% less water use and ~10% lower fertilizer runoff.

PROJECTS

Meningitis Case-Similarity Retrieval & Summary Agent | *Python, OpenAI, FAISS, Streamlit*

2024

- Built an NLP retrieval pipeline to match meningitis case reports using OpenAI embeddings + FAISS vector search.
- Achieved precision@5 = 0.24 and ROUGE-1/L of 0.39/0.26 on clinical-text benchmarks.
- Created an interactive Streamlit interface for medical case exploration; work was **published** and **presented at MIT URTC**.

BioProof Prototype (Harvard HSRC) | *Python, Flask, React, Docker*

2024

- Served as Technical Lead for the Harvard HSRC Innovation Challenge; engineered the full BioProof prototype for real-time sample verification.
- Built Flask backend APIs, detection logic, and integrated them with a React dashboard for live demonstration.
- Debugged workflow failures, containerized services with Docker, and optimized latency for on-stage performance.
- Led technical direction and live demo; placed 2nd among 18 teams for innovation and real-world applicability.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, C++, SQL (PostgreSQL)

Frameworks: FastAPI, Flask, React, Node.js, Streamlit

Developer Tools: Git, GitHub, Docker, VS Code

Libraries: pandas, NumPy, scikit-learn, FAISS