

Pranav Palutla

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EDUCATION

The University of Texas at Dallas

Richardson, TX

Bachelor of Science in Computer Science, Minor in Innovation & Entrepreneurship

Expected May 2028

- Relevant Coursework: Computer Architecture, Data Structures, Operating Systems
- Organization Experience: GDSC (Google Developer Student Club), AIS (Artificial Intelligence Society)

PROFESSIONAL EXPERIENCE

GDSC Sprints

UT Dallas

Sprint Mentor

Jan. 2026 – Present

- Mentored 13 mentees across 2 cohorts on backend and AI/ML integration for full-stack project development.
- Taught MVC architecture, RESTful API design, Docker containerization, and cloud deployment to beginner devs.
- Led 6-week Agile sprints using Git and GitHub, delivering a functional MVP demo on schedule.
- Conducted architecture reviews and debugging sessions, unblocking teams building AI-integrated backend systems.

VFin

Dallas, TX

Software Engineering Intern

Sep. 2025 – Jan. 2026

- Engineered Swift UIKit interfaces for a fintech iOS app, implementing MVC architecture across core user flows.
- Designed Figma wireframes and prototypes for newly scoped features within an Agile cross-platform team.
- Developed RESTful APIs using Azure and PostgreSQL, ensuring seamless integration into existing CI/CD pipeline.
- Collaborated with senior engineers on code reviews and Swift architecture decisions for production deployment.

Carrollton-Farmers Branch ISD

Irving, TX

Robotics & Technology Mentor

Sep. 2024 – May. 2025

- Delivered robotics workshops to 90+ students across 3 K-12 schools, teaching Python, Arduino, and system design.
- Mentored middle and elementary students in VEX robotics, advancing teams to competitive standings district-wide.
- Designed hands-on curricula covering sensors, control logic, and iterative debugging for beginner programmers.
- Collaborated with teachers across 3 schools to embed robotics and coding projects into STEM classrooms.

ACADEMIC PROJECT EXPERIENCE

TruScope

May 2025 – Present

- Built Chrome extension using JavaScript and ML models to detect bias in online content.
- Fine-tuned RoBERTa using PyTorch to improve text classification and reduce false positives.
- Containerized app with Docker and deployed via Firebase for scalable production release.

NexDrop

April. 2026

- Developed NexDrop for HackSMU, a digital twin platform using FastAPI/React to analyze urban financial data.
- Integrated Ollama and Qwen2.5 models to automate high-accuracy investment analyses via a scalable LLM pipeline.
- Developed an enrichment pipeline to compute water-capture and ROI scores for urban building sustainability.

Code Archeologist

Dec. 2025 – Feb. 2026

- Built a multi-agent backend using FastAPI and Python to parse and analyze legacy codebases via LLM pipelines.
- Implemented RAG pipeline with ChromaDB and vector embeddings for semantic code retrieval across large repos.
- Orchestrated multi-LLM pipelines supporting Gemini and major LLM APIs, achieving 95% code retrieval accuracy.

ADDITIONAL INFORMATION

Languages: Swift, HTML, CSS, Python, Java, JavaScript, TypeScript, SQL, C++, C

Frameworks: FastAPI, Node.js, React, Next.js; Cloud & DevOps: AWS, Azure, Docker, Firebase

Libraries: TensorFlow, pandas, NumPy, Matplotlib, ChromaDB, Tree-Sitter, NetworkX

Core Skills: Full Stack Development, AI/ML, Natural Language Processing, Data Structures & Algorithms, API Design, System Design, Database Design