Pravan Gorthy

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Education

The University of Texas at Dallas May 2028
Bachelor of Science in Computer Science *Richardson, TX*

Experience

LinkedIn May 2026 – Aug. 2026
Software Engineer Intern *Mountain View, CA*

- Built **LangGraph orchestration** for LinkedIn's internal HR assistant using **Python and gRPC**, routing employee requests across **5+ agent modes** and reducing routing latency by **25%**.
- Integrated **Workday, SmartRecruiters, and ServiceNow** through MCP tools to unify employee HR workflows in one conversational assistant across **Slack, Teams, and web**.

The University of Texas at Dallas Sep. 2025 – Feb. 2026
Undergraduate Machine Learning Research Assistant *Richardson, TX*

- Built **Python and MATLAB** pipelines to segment **50+ hours of mouse ultrasonic vocalizations** into **10K+ samples** for autism-related developmental research, reducing preprocessing time by **30%**.
- Validated ML classification outputs against faculty-reviewed annotations and generated **30+ visualizations** to investigate vocal patterns as potential early neurodevelopmental markers.

HSK Technologies Jun. 2023 – Mar. 2024
Software Engineer Intern *Newark, NJ*

- Automated data integration across **15+ APIs** through **5+ ETL pipelines** and **50+ Python scripts**, eliminating **20+ hours** of manual processing each week.
- Improved reliability of scheduled **Python and SQL** workflows by adding data-quality checks, automated tests, and pipeline monitoring to identify failures before ingestion.

Projects

Stride | *Electron, Node.js, Garmin, Strava, Claude, MCP* Jul. 2026

- Built a **macOS AI running coach** that combines Garmin and Strava activity data into one interface for pace, heart-rate-zone, cadence, and recovery analysis.
- Integrated **Garmin MCP tools and Anthropic's API** to interpret HRV, sleep, and training-load metrics through conversational explanations of workout and recovery trends.

EcoFin Carbon | *TypeScript, Gemini, Nessie API, Vite, Tailwind* Oct. 2025

- Built an **AI-powered carbon-impact dashboard** that estimates emissions from Capital One Nessie transaction data, helping users identify high-impact spending categories.
- Integrated **Gemini** for personalized sustainability recommendations and led frontend development in **TypeScript, Vite, and Tailwind**; won **1st place at HackTX 2025**.

Leadership

Developer Lead Oct. 2025 – Present
FinTech UTD *Richardson, TX*

- Leading planning for **FlowShift**, a proposed small-business cash-management platform combining **14-day cash forecasts**, payroll safeguards, and payment-timing recommendations.
- Mentoring student engineers through **REST API and database design**, code reviews, and Git workflows, translating fintech product requirements into actionable development tasks.

Technical Skills

Languages: Python, Java, C++, C, C#, TypeScript, JavaScript, SQL, Swift, Bash, Rust
Frameworks: LangGraph, FastAPI, Flask, Spring Boot, React, Next.js, Node.js, PyTorch, TensorFlow
Databases & Cloud: PostgreSQL, MySQL, MongoDB, Redis, AWS, Azure, GCP
Developer Tools: Git, Docker, Kubernetes, Kafka, gRPC, MCP, Linux, CI/CD, Splunk