

Pravan Gorthy

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EDUCATION

University of Texas at Dallas <i>Bachelor of Science in Computer Science</i>	Richardson, TX <i>May 2028</i>
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TECHNICAL SKILLS

Languages: Java, C++, Python, C#, TypeScript, JavaScript, Bash, SQL, HTML, CSS
Backend/Systems: Distributed Systems, REST APIs, gRPC, Caching, Queues, Observability, Performance Optimization
Frameworks: React, Flask, PyTorch, LangGraph, Node.js, Next.js, Tailwind CSS
Developer Tools: Git, Docker, MCP, XCode, Azure, VS Code, Visual Studio, Figma

EXPERIENCE

Software Engineering Intern <i>LinkedIn</i>	May 2026 – Present <i>Mountain View, CA</i>
- Architecting the core multi-agent orchestration layer for Helios on LinkedIn's internal DragonSwarm platform using LangGraph, Python, and gRPC, coordinating 5+ specialized agent modes and cutting request routing latency by 25% via intent classification, ReAct tool-calling, and stateful agent-to-agent handoffs. - Building the MCP tool-integration layer connecting agents to 3 enterprise systems (Workday, SmartRecruiters, ServiceNow), standardizing auth and tool schemas to cut integration time per new tool by 40%. - Designing RAG retrieval and grounding infrastructure for HR policy responses, improving retrieval relevance by 20% via optimized chunking/ranking, while adding SSO/SAML auth and audit logging across 3 channels: Teams, Slack, web.	
Undergraduate Research Assistant <i>School of Behavioral and Brain Sciences, UT Dallas</i>	September 2025 – February 2026 <i>Richardson, TX</i>
- Processed 50+ hours of ultrasonic vocalization recordings and 10,000+ audio segments using MATLAB, Python, VocalMat, and Avisoft-SASLab Lite, building pipelines that cut manual preprocessing time by 30%. - Generated 30+ publication-ready visualizations, statistical summaries, and research reports, cutting analysis turnaround by 25% and speeding comparison of behavioral patterns across groups.	
Software Engineering Intern <i>HSK Technologies Inc.</i>	June 2023 – March 2024 <i>Newark, NJ</i>
- Integrated 15+ third-party APIs and built 5+ automated ETL pipelines with scheduling and validation, cutting data-ingestion failures by 20% and improving dashboard reliability. - Developed 50+ Python automation scripts for data processing and reporting, saving an estimated 20+ hours/week of manual work and speeding recurring workflows by 40%.	

PROJECTS

Tab <i>TypeScript, React, Vite, Express, x402, Base, Anthropic, DexScreener</i>	May 2026
- Built an agentic payment infrastructure platform that gives AI agents controlled access to paid tools through budget enforcement, policy-based spend approval, and auditable receipts for every tool call. - Implemented an x402-powered agent spend workflow on Base payment rails with real-time policy verdicts, market-data API calls, Anthropic inference, and dashboard tracing for approved, denied, and skipped agent actions.	
EcoFin Carbon <i>TypeScript, JavaScript, Tailwind CSS, Gemini, Nessie API, Vite</i>	October 2025
- Built an AI-powered fintech web app that analyzes transaction-level spending and estimates carbon emissions using the Capital One Nessie API, helping users understand the environmental impact of their purchases. - Led frontend development across responsive dashboards, user flows, and AI-generated sustainability insights; won 1st Place HackTX 2025 with Capital One recognition and \$1,000.	
BudgetCents <i>Python, Flask, React, Stripe, SQL, Git</i>	November 2024
- Built a full-stack personal finance application with Flask, React, Chart.js dashboards, and Stripe payment integration, with SQL-backed expense tracking, budgeting, and transaction history. - Designed interactive analytics dashboards for budget tracking, category breakdowns, and spending insights; won 1st Place HackFin 2024 and \$400.	

ACHIEVEMENTS & INTERESTS

2x Hackathon Winner: Won 1st Place HackTX 2025 for EcoFin Carbon and 1st Place HackFin 2024 for BudgetCents, earning over \$1,400 in prizes across fintech, AI, sustainability, and financial analytics projects. BPA: Top 3 National Finalist in Business and Stock Simulation, applying financial analysis, market research, business strategy, and investment decision-making skills. Interests: FinTech Infrastructure, Backend Engineering, Distributed Systems, Machine Learning, Fitness, Running	
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