

Pravan Gorthy

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EDUCATION

University of Texas at Dallas

Bachelor of Science in Computer Science

Richardson, TX

May 2027

TECHNICAL SKILLS

Languages/Frameworks: Java, Python, C/C++, HTML/CSS, JavaScript, SQL, React.js, Node.js, Flask

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, Eclipse

Certifications: Office 365 Certified, Java Certified, C++ Certified, Google Cybersecurity Certified

EXPERIENCE

School of Behavioral and Brain Sciences, UT Dallas

September 2025 – Present

Undergraduate Researcher

Richardson, TX

- Collect and preprocess large-scale audio datasets of mouse ultrasonic vocalizations using MATLAB, Python, VocalMat, and Avisoft-SASLab Lite, ensuring accuracy, noise reduction, and consistent data to analyze.
- Convert raw and often unstructured recordings into interpretable formats, producing detailed visualizations, statistical outputs, and cleaned datasets that allow neuroscientists to easily interpret behavioral patterns.
- Support the integration of signal processing pipelines with advanced machine learning models, collaborating with graduate researchers to predict emotional states, cognitive traits, and biological outcomes.

Chinchilla AI

July 2025 – August 2025

Software Engineering Intern

Remote

- Developed and deployed over **5** production-grade FastAPI endpoints powering real-time AI features, reducing backend latency by **35%** and enabling smoother user experiences across the platform.
- Collaborated closely with an agile team of **12** engineers to design, test, and deliver AI-driven functionality that successfully passed **100%** of CI/CD integration tests, guaranteeing stability in production.
- Integrated Claude API into backend workflows for automated code generation and refactoring, increasing development velocity by **40%+** while lowering manual engineering workload.

HSK Technologies INC.

June 2023 – March 2024

Software Engineering Intern

Newark, NJ

- Integrated **15+** third-party APIs and automated CSV pipelines to improve analytics dashboards, giving stakeholders real-time visibility into operations, marketing performance, and executive reporting.
- Authored and maintained **50+** Python scripts that automated repetitive business tasks such as report generation, data entry, and metrics aggregation, saving the team **20+ hours weekly**.

PROJECTS

EcoFin Carbon | TypeScript, JavaScript, Tailwind CSS, Git, Gemini, Nessie API, VITE

October 2025

- Built an AI-powered fintech web app that tracks and visualizes carbon emissions for each transaction using the Capital One Nessie API and sustainability datasets, helping **2,400+** users reduce high-emission.
- Led frontend development with React and TailwindCSS, increasing engagement by **52%**.
- First Place at HackTX 2025, Capital One Challenge, earning **\$1,000** in prizes.

Poseperfect.ai | PyQt5, Flask, MediaPipe, OpenCV, NumPy, pytsx3

August 2025

- Developed a desktop app to analyze bodybuilding poses by comparing webcam input to reference images.
- Added voice-guided corrections and visual overlays using MediaPipe and OpenCV, improving pose accuracy by **30%**.

BudgetCents | Python, Flask, React, Stripe, Git

November 2024

- Created a financial app with Chart.js dashboards and Stripe integration, processing **\$4,000+** in dues.
- Built analytics tools to visualize **\$7,000+** in budget data, improving transparency for **100+** members.
- First Place at HackFin 2024, Alpha Kappa Psi Challenge, earning **\$400** in prizes.

ACHIEVEMENTS & INTERESTS

Hackathon: 1st place at HackFin and HackTX 2025, winning over **\$1,400** in total prizes.

BPA: Top 10 National Finalist in stock/business simulation events through BPA.

Interests: Cybersecurity, Machine Learning, Fitness, Taekwondo, Running, Football, Gaming, Photography