Pravan Gorthy

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EDUCATION

University of Texas at Dallas — Richardson, TX
Bachelor of Science in Computer Science — *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.
- Designed and implemented reusable ETL pipelines with built-in validation, logging, and error-handling mechanisms, ensuring reliable data ingestion and dependable analytics.

PROJECTS

CoachMe | *Python, Flask, React, Git* — April 2025 – Present
- Built a mentorship platform with scheduling, chat, and geolocation to connect coaches and athletes.
- Led frontend development with React, improving UI speed and responsiveness, boosting engagement by 40%.

BudgetCents | *Python, Flask, React, Stripe, Git* — November 2024
- Created a financial app with Chart.js dashboards and Stripe integration, processing $4K+ in dues.
- Built analytics tools to visualize $7K+ budget data, improving transparency for 100+ members.

Poseperfect.ai | *PyQt5, Flask, MediaPipe, OpenCV, NumPy, pyttsx3* — 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, improves posing by 30%.

ACHIEVEMENTS & INTERESTS

Hackathon: 1st place at HackFin for BudgetCents, awarded $400 for innovation and execution.
BPA: Top 10 National Finalist in stock/business simulation events through BPA.
Interests: Cybersecurity, Machine Learning, Fitness, Taekwondo, Running, Football, Gaming, Photography