Pranavkrishna Suresh

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EDUCATION

Georgia Institute of Technology   August 2023 - May 2026
B.S. in Computer Science (Threads: Artificial Intelligence, System Architecture)

RELEVANT COURSEWORK

Courses: Data Structures & Algorithms, Object-Oriented Programming, Algorithms, Computer Organization, Objects and Design, Perception & Robotics, Linear Algebra, Differential Equations, Discrete Math

Awards: Google Top 10 Solution Challenge, CDAIT IoT Challenge Winner, Regeneron HealthTech Winner, UC Berkeley AI Hackathon Winner, MIT Quantum Computing Winner, AI ATL Hackathon Winner, Cornell Health Hackathon Winner, Congressional App Challenge Winner, Fusen VC-Backed Founder, National Merit Finalist

Clubs: Startup Exchange (Exec Team), RoboJackets (SWE Team), Quantum Computing Association

WORK EXPERIENCE

VDart - Software Engineering Intern, AI R&D | *Python, LLM, ReactJS, Express, Git*   May 2024 – Aug 2024
- Engineered ML pipeline to automate resume screening and authorize interviews, reducing processing time by 40%.
- Developed voice fingerprint model to enhance secure candidate authentication, reducing interview fraud by 80%.

Churn - Software Engineering Intern | *Python, ReactJS, SQL, Express, Git*   Jan 2024 – April 2024
- Crafted ML optimization model to analyze credit card data for optimal benefits recommendations.
- Created an accounts system with enhanced UI/UX, increasing engagement by 35% and retention by 20%.

VigilAI - Founder | 160K Seed Funding Raised | *Python, NLP, Deep Learning, Git*   Nov 2023 – Present
- Built ML pipeline (Speech Separation, Voice Fingerprinting, Sentiment Analysis) with Whisper.
- Deployed Multiagent LLMs with a central RAG on NVIDIA G5 EC2 instances, boosting performance by 25%
- Trained ML Video Recursion Models on 50,000 hours of body camera footage through UCFPD and GTPD.
- Leveraged AWS GovCloud Architecture for beta testing across 10+ police departments in the U.S.

Georgia Tech Research Institute - Research Intern | *Python, C++, ROS, SolidWorks, Git* June 2022 – July 2022
- Automated UR3 industrial robotic arm with ROS2 and finite state machine for IOT-enabled stem cell transport.

PROJECTS

Therapute - Google Solution Challenge Top 10 Global Winner 2024 | Represented USA (8000 Applicants)
- Developed MERN platform, enabling patients to receive AI-driven insights on their physiotherapy journey.
- Implemented a Flask server with OpenCV and Mediapipe integrations to perform Time-Series Forecasting.

Spark - Winner at UC Berkeley AI Hackathon 2024 (Largest AI Hackathon in US)
- Developed NextJS app to identify successful cold calling techniques with HumeAI and Multi-Agent LLM's.

1Record - Winner at Cornell Health RX Hackathon 2024
- Created a MERN app to analyze patient symptom patterns, enabling prediction of patient outcomes.
- Vectorized 100K EHR records to store contextual representations of a patient history in MongoDB Vector Search.

QForce - MIT Quantum Computing Hackathon Winner 2024 | Quandela Photonic Chip Challenge
- Constructed a QGAN model with a classical optimizer to achieve high-fidelity qubits on NISQ hardware.

KEY SKILLS & TECHNOLOGIES

Languages: Python, Java, Swift, C, C++, C#, JavaScript, TypeScript, HTML, CSS, R, Kotlin, SQL, Assembly
Technologies: ReactJS, Xcode, MySQL, ExpressJS, NextJS, React Native, TensorFlow, PyTorch, LLM, Flask, Docker, GCP, AWS, Firebase, CUDA, MongoDB, ROS2, Agile Methodology, CI/CD, UX Design, Git
Concepts: Optimization, Debugging, Communication, Software Engineering, Abstraction, Documentation, Agile, Performance Benchmarking, Data-Driven Systems, Cross-Platform Development