

Praneeth Rangarajan

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EDUCATION

Georgia State University: College of Arts & Sciences
Bachelor of Science in Computer Science

Class of 2026

Relevant Coursework: Computer Organization and Programming, Data Structures, Design and Analysis: Algorithms, Operating Systems, Programming Language Concepts, System Level Programming

EXPERIENCE

Coding Tutor | Code Hero Academy - Alpharetta, GA

Current

- Guide students in learning programming fundamentals and developing problem-solving strategies through hands-on instruction.
- Design and build interactive coding projects to showcase at community events, inspiring interest in technology and highlighting real-world applications of computer science.

PROJECTS

Algorithmic Stocks and Options Trading Bot

- Built an event-driven trading bot for equities and options using statistical signals and multi-instrument strategies.
- Integrated portfolio-level risk management, position sizing, and hedging to control drawdowns and exposure.
- Developed a full backtesting and simulation framework, achieving ~3-5% average monthly returns.

Real-Time Racing Telemetry Analysis Platform

- Built a comprehensive telemetry tool for racing simulators to track driver performance, lap times, and car dynamics.
- Tracked driving efficiency and lap times, with session comparison and live visual feedback for actionable insights.
- Bridged real-time telemetry data with user-driven decision-making to optimize performance and setups.

Telemetry Driven Tuning Assistant

- Built a real-time tool to analyze car component performance under varying track and driving conditions.
- Modeled tire grip, suspension movement, and chassis behavior to generate optimized setups.
- Allowed adaptive tuning for different drivers and driving styles.

SKILLS

Programming Languages: JavaScript, TypeScript, Python, C++, SQL, HTML, CSS, Java

Frameworks and Libraries: Node.js, Express.js, Electron, MongoDB, NumPy, Pandas, TensorFlow, PyTorch, OpenCV

Tools and Technologies: Git, Docker, CCXT, WebSockets, Postman, Firebase, Heroku, Event-Driven-Architecture

EXTRACURRICULARS

UGAHacks | University of Georgia - Athens, GA

- Built and fine-tuned a lightweight language model using custom web-scraped data to generate context aware responses.
- Optimized the model for efficient, domain specific output, demonstrating the practical applications of NLP for business automation and user-facing tools.

CodeDay | LexisNexis Risk Solutions - Alpharetta, GA

- Collaborated with a team to design and develop multiple computer science projects under time constraints, earning three project awards for innovation and technical quality, including recognition for best overall performance.
- Volunteered at CodeDat to support event operations and assist participants, contributing to an engaging experience.