

Pranav Eega

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Education

Georgia Institute of Technology

August 2024 - May 2027

B.S. Computer Science, B.S. Mathematics

GPA: 4.0/4.0

Relevant Coursework: Data Structures & Algorithms, Algorithm Design, Scrum & Agile Methodologies, Object Oriented Programming, Linear Algebra + Multivariable Calculus, Database Systems in SQL, Computer Architecture

Work Experience

Big Data Big Impact | *Flight Delay Prediction: Platform Subteam Lead*

August 2024 – Present

- Developing a Google Chrome Extension that gives flyers more information about delays upon searching for tickets, saving time stress and energy.
- Leading a team of 5 students that are in charge of integrating Google Cloud Functions and Firebase to the application.
- Creating a Firestore database to implement to the back-end of the application that will create new entities when a user signs in with Google Oauth.
- Establishing a way to send user data into an AI Model to determine the estimated delay.
- Following Agile and Scrum Methodologies, having biweekly stand ups and subteam meetings.

Undergraduate Researcher | *ACT Driving Simulator*

December 2024 – Present

- The ACT (Autonomous and Connected Transportation) Driving Simulator Team tackles various challenges stemming from the rise of autonomy, connectivity, and technology-driven transportation modes.
- Leveraging a driving simulator environment and analytical modeling to develop sustainable travel solutions and deployment tools for smart and connected communities (SCCs).
- Developing TransACT Mobile App to Promote Sustainable Travel, and testing behavioral interventions in a field experiment conducted in the city of Peachtree Corners to see if certain constraints will reduce a users global footprint.

Georgia Institute of Technology | *Undergraduate Teaching Assistant: Introduction to AI*

August 2025 – Present

- Assisted in teaching a 3-credit undergraduate AI survey course covering: Search & Optimization (BFS, UCS, A*, local search, CSPs, adversarial search), Uncertainty & Probabilistic Reasoning (Bayes' Rule, Bayesian networks, Markov models, HMMs), Machine Learning (linear/logistic regression, gradient descent, MLPs, CNNs, RNNs, transformers) and Planning & Decision-Making (Markov Decision Processes, reinforcement learning, Monte Carlo Tree Search, AlphaZero)
- Held weekly office hours and provided one-on-one guidance to 284 students on Python programming assignments, debugging, and conceptual problem-solving.
- Collaborated with professor and head TA in designing and grading 12+ programming projects and three midterm

Projects

Spotify Wrapped Experience

- Developed an interactive Spotify Wrapped web app in a Scrum-based team, leveraging the Spotify API to deliver personalized music insights. Features include an album guessing game, AI-driven style categorization, and a responsive design with multiple themes. Enabled social sharing of Wrapped results and public viewing for a more connected user experience.

Atlanta Food Finder

- Designed a location-based restaurant discovery app for Atlanta, tailored to user preferences. Collaborated in an Agile, Scrum-oriented team to ensure rapid iteration. Integrated the Google Maps API for real-time visualization and implemented dynamic filters for personalized recommendations.

Braille Buddy

- Engineered an accessibility-focused app to support real-time communication for Deafblind users. Utilized haptic Braille feedback and a custom Braille keyboard for two-way text translation. Integrated AI-based image analysis to provide environmental descriptions, enhancing daily navigation and independence

Additional

Skills: Agile Methodologies, Amazon Web Services, Python, Django, R shiny, Java, HTML/CSS, C, SQL, GitHub, Comptia Security+, Machine Learning, Design Methodologies, Linux Operating System, Swift

Certifications: IT Specialist - Java, IT Specialist - Python, IT Specialist - Software Development, 2021 AT&T Summer Learning Academy Completion, Microsoft Office Specialist: Powerpoint, Word, Excel