RAHUL IYER

Atlanta, GA • (850) 544-5944 • riyer82@gatech.edu • www.linkedin.com/in/rahul-iyer-gt • U.S. Citizen

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY   **Atlanta, Georgia**
Bachelor of Science in Computer Science   *Graduating: December 2025*
- *Concentrations:* Artificial Intelligence & Machine Learning, Modeling & Simulation   *GPA:* 3.8
- *Relevant Coursework:* Data Structures & Algorithms | Natural Language Processing | Machine Learning | Design and Analysis of Algorithms | Computer Systems & Networks | Computer Vision | High Performance Computing

EXPERIENCE

HONEYWELL   **Charlotte, NC**
Software Engineering Intern (AI/ML Focus)   *May 2024 - August 2024*
- Engineered a generic Data Migration tool using ETL principles, OpenAI, and Python for advanced data integration
- Implemented FAISS-based similarity search and metadata mapping, generated SQL/ Python scripts for transformation
- Leveraged LangChain, vector text embeddings, and Pandas for data manipulation–built tool prototype using Streamlit
- Tested tool on 40+ objects, collaborated with business stakeholders and enhanced mapping accuracies to over 90%

RAHNEV LAB   **Atlanta, GA**
Computational Neuroscience Research Assistant   *January 2024 - August 2024*
- Built and trained CNN using TensorFlow to engage in object discrimination tasks, compared findings to human data
- Designed Javascript-based web applications to allow subjects to partake in perception-related experiments
- Analyzed a multitude of image morphing algorithms to determine factors that result in best mix of base images

GTRI ELECTRONIC SYSTEMS LABORATORY   **Atlanta, GA**
Software Engineering Intern   *January 2023 - May 2023*
- Designed embedded software for aircraft radar protection systems with 10+ senior developers and engineers
- Developed algorithm to determine coordinates of threat emitter on radar, refining accuracy of calculation to 100%
- Utilized Javascript, C#, C++ and maintained continuous integration and deployment pathways for several projects

PROJECTS

INTELLIGENT TENNIS ANALYSIS SYSTEM   **Atlanta, GA**
Personal Project   *December 2024 - January 2025*
- Leveraged YOLOv8 for real-time analysis of players and tennis balls in videos, fine-tuned using Ultralytics dataset
- Trained custom CNN with Pytorch to accurately detect and extract court keypoints, enhancing precision of analysis
- Applied OpenCV and object tracking algorithms to process data across 1000+ frames, producing a streamlined tool

VIRTUAL ENGINEERING PLATFORM AUTOMATION   **Charlotte, NC**
Site Reliability Engineering Project   *May 2024 - August 2024*
- Integrated ServiceNow with Rest API and Github Actions to run specific scripts depending on the user's request type
- Wrote Python scripts to make calls to VMware API and configure virtual machines, automatically deploy RDG file
- Saved 41.25 hours of cloud team's weekly time expenditure by automating VM deployment and vApp creation tasks

MOODIFY   **Atlanta, GA**
Hackathon Project   *October 2023*
- Incorporated Spotify API to generate and recommend playlists matching classified emotion of artworks using Pytorch
- Coordinated integration using a Python Script and JS, utilized Firebase for front-end and back-end communication
- Cultivated UI using Tailwind CSS and Vue.js, enhanced user experience and promoted user interaction with classifier

LEADERSHIP

ALPHA KAPPA PSI (CO-ED PROFESSIONAL ORGANIZATION)   **Atlanta, GA**
Director of Software Development   *August 2023 - August 2024*
- Employed React, Node.js, MongoDB and other tools to develop a web application for members to view their data
- Applied React and Firebase to rush website that authenticated accounts for 200+ and streamlined selection process
- Identified pain points in applications and communicated fixes and improvements to the software development team

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SKILLS/INTERESTS

Technical: Python, Java, C, C#, C++, SQL, HTML, CSS, Javascript, Typescript, Postman, VMware, ServiceNow
AI/ML: TensorFlow, PyTorch, LangChain, OpenAI, Keras, Matplotlib, Pandas, SciPy, Numpy, FAISS
Awards: American Invitational Mathematics Examination (AIME) Qualifier, National Merit Finalist, Dean's List
Affiliations: Alpha Kappa Psi, AI@GT, S&T Policy Connections @ GT, Climbing Club
Interests: Tennis, Climbing, Coding, Puzzles, Speed Cubing, Reading, Traveling, Photography, Blogging, Running