

Sai Nagarajan

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Industrial Engineering

Aug 2023 – May 2026

GPA: 4.0/4.0

- **Concentrations:** Economics, Financial Systems
- **Relevant Coursework:** Engineering Optimization, Probability, Data Manipulation

Bachelor of Science in Computer Science

Aug 2023 – May 2026

GPA: 4.0/4.0

- **Concentrations:** Artificial Intelligence, Devices
- **Relevant Coursework:** Data Structures, Algorithms, Discrete Math, Computer Organization

EXPERIENCE

Georgia Institute of Technology, College of Computing

Atlanta, GA

Undergraduate Teaching Assistant – Discrete Mathematics (CS 2050)

Aug. 2024 – Present

- Leading overhaul of instruction material with enhanced design and clearer explanations, distributed to 1,000+ students
- Introduced interactive software to analyze 200+ real-time responses to in-class practice, optimizing data-driven teaching
- Apply first-principles approach to teaching recitation section of 30+, resulting in 90%+ assignment average

Undergraduate Teaching Assistant – Object-Oriented Programming (CS 1331)

Jan. 2024 – Aug. 2024

- Ensured course efficiency for 1,000+ students through assignment grading/troubleshooting and teaching class section
- Composed 20+ technical instruction documents and JUnit test suites for grading of 1,000+ assignments weekly
- Delivered a 100%, 4.0 course GPA for all 27 recitation section students through engaging instruction and 1:1 guidance

AvtechTye

Everett, WA

Finance Intern

Mar. 2023 – June 2023

- Developed supply-chain pipeline to sell obsolete inventory in reserve account that will increase EBITDA by 15%+
- Authored end-to-end 4,000-word process improvement work instruction to locate/sell/scrap 500+ excess aircraft parts
- Aided in budget reconciliation, ledger preparation, and audits through advanced use of Excel and Oracle ERP

PROJECTS

LLM-Driven Personality Matching Algorithm | Python, SQL, ReactJS

June 2020 – Present

- Devised a personality-psychology cosine similarity algorithm based on user-defined text description of themselves
- Trained BERT LLM on HuggingFace database using PyTorch to generate user vectors from text characteristics
- Established SQL vector database for 64-dimension personality vectors, connecting users through closest match
- Functioned as Scrum Master in 5-person Agile team, uniting international remote team to deliver results

ORGANIZATIONS/LEADERSHIP

Financial Coordinator

Sep. 2023 – Present

Residence Hall Association, Georgia Tech

Atlanta, GA

- Manage \$5,700 budget of 1,000+ student residential community, advising council on appropriate expenditures
- Ensure accounting compliance with Institute and State regulations with advanced use of Excel
- Delivered a 40% budget surplus whilst helping produce successful student engagement events with 50+ participants

Business Analyst

Sep. 2023 – Present

Consult Your Community, Georgia Tech

Atlanta, GA

- Developed marketing plan for law firm by processing Google Analytics data to increase marketing ROI by 50%
- Delivered market entry strategy for NGO through market/product research and profiling of 5 peer organizations

TECHNICAL SKILLS

Languages: Python, Java, Dart, HTML, CSS, Solidity, Android Studio, SQL, JavaScript

Frameworks: React, Node.js, JUnit, Django

Tools: Git, Docker, MATLAB, Fusion360, Excel, Adobe Creative Cloud, Microsoft Office, Google Cloud