

# Darshit Shah

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## EDUCATION

### Georgia Institute of Technology *B.S. Mathematics, Minor in Computer Science*

December 2027

Academic Awards: 3x President's List GPA: 4.00

Relevant Coursework: Data Structures and Algorithms, System Level Programming, Discrete Mathematics, Linear Algebra, Applied Probability

## TECHNICAL SKILLS

Languages: JavaScript, Python, C++, SQL, Java, HTML/CSS

Tools/Databases: MongoDB, PostgreSQL, Firebase, Supabase, Docker, Git, AWS, Azure, Google Cloud, Vercel

Frameworks/Libraries: React, Node.js, Express, Flask, FastAPI, Tailwind CSS, Socket.IO

## EXPERIENCE

### STEM Tutor | Georgia State University

August 2025 – December 2025

- Tutored students across a math curriculum ranging from College Algebra to Linear Algebra and Probability, focusing on step-by-step conceptual understanding.
- Assisted with introductory Computer Science courses by helping with algorithmic reasoning, code debugging, and syntax in assignments.
- Facilitated exam review sessions in both online and in-person modes, targeting core concepts and common problem types.
- Supported the academic progress of 50+ students over the semester through individual and small-group tutoring sessions.

### Machine Learning Intern | IDC Technologies

May 2025 – Aug 2025

- Engineered a centralized PostgreSQL schema and optimized SQL queries, reducing query latency by 30% and enabling unified data access for ML workflows.
- Developed Python pipelines for real-time job assignment and a predictive ML model, improving technician utilization by 22%.
- Built a scalable synthetic data generator and optimized backend architecture, accelerating development by 40% and cutting runtime latency by 30%.

### Student Assistant | Georgia State University

September 2024 – May 2025

- Managed reception duties and calendar scheduling, handling 50+ daily inquiries and reducing appointment conflicts by 30%.
- Collaborated with research teams to coordinate cross-departmental events and knowledge-sharing sessions.
- Executed 10+ research-related events per semester, resulting in a 35% increase in interdepartmental collaboration.

## PROJECTS

### Motion | Georgia Tech Hackathon (HackGT XI)

September 2025

- Built an AI-enabled app with Django and JavaScript that automates syllabus parsing and generates personalized academic calendars.
- Implemented third-party API integrations and utilized Google's Gemini to enhance functionality.
- Created a user-friendly interface with HTML/CSS and FullCalendar, incorporating assignment tracking and PDF storage.

## EXTRACURRICULARS

### Interview Prep Bootcamp | CodePath

February 2025 – May 2025

- Completed a selective 10-week technical interview prep program focused on data structures and algorithms, including arrays, trees, and dynamic programming.
- Conducted mock technical interviews and live coding sessions, emphasizing clear problem breakdown and time-space complexity analysis.

### Panther Immersion Program (Austin Cohort) | Robinson College of Business

April 2025 – November 2025

- Selected for a competitive cohort-based professional development program focused on industry exposure and career readiness.
- Engaged with industry professionals through workshops to strengthen communication, collaboration, and professional presence.