

# Soham Gunturu

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## EDUCATION

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### Georgia Institute of Technology

Expected Graduation: May 2028

GPA: 3.9 / 4.0

- *B.S. in Computer Science – Intelligence and Systems & Architecture Threads*
- Organizations: Trading at GT, AI at GT, Data Science at GT, GROWER Lab, Hexlabs, Ganesh Lab, Product @ GT
- Coursework: Operating Systems, Compilers & Interpreters, Machine Learning, Artificial Intelligence, Probability/Statistics, Discrete Math, Computer Architecture, Data Structures & Algorithms, Algorithmic Design, Systems & Networks, Object-Oriented Programming

## WORK EXPERIENCE

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### Databricks

Bellevue, WA

- Incoming Software Engineer Intern (Summer 2026)

### Microsoft

Atlanta, GA

#### Product Fellow

Aug 2025 – Jan 2026

- Ideated and developed a full-stack automated incident management system using multi-agent AI in collaboration with Product @ GT.
- Estimated to save ~\$500K in development efforts annually by streamlining ticket routing and providing situational escalation context.

### Amazon

Tempe, AZ

#### Software Development Engineer Intern

May 2025 – Aug 2025

- Built internal tooling using Java, React, and AWS to find and resolve conflicting product offers for the AmazonCustom team, reducing error diagnosis time by 20% and improving resolution scalability.
- Developed a full-stack feature to enable sellers to download sample fulfillment zip files from buyer previews, inducing a 22% increase in seller adoption of the Buyer Preview feature on the Seller Central website.
- Enhanced deployment pipeline speed by 30% by optimizing test suites and researching root issues in previous tickets.

### Vijay Ganesh Lab

Atlanta, GA

#### Undergraduate Researcher

Aug 2025 – Present

- Integrating conflict-driven clause learning (CDCL) and LLM agents to solve Olympiad-level math/combinatorial problems via a custom reasoning framework.
- Building a Pydantic AI multi-agent system that constructs and visualizes implications DAGs from agent-generated deductions and decisions.

### GROWER Lab

Atlanta, GA

#### Team Lead & Data Engineer

Aug 2024 - Present

- Evaluating different machine learning and threshold-based methods to aggregate power outages in existing data by contrasting with ground truth data provided by different utilities and national labs.
- Leading research to understand the impact of physical and cyber-attacks on US energy infrastructure through data analysis and visualization.
- Developing a full-stack dashboard to display GROWER power outage metrics like SAIDI and SAIFI across the United States.

### Nationwide Children's Hospital

Columbus, OH

#### Data Science Intern

June 2023 – Dec 2023

- Analyzed spatial datasets to identify differences between primary and metastatic tumors, resulting in a 20% faster differentiation which contributed to more targeted cancer treatments.
- Refined an Agent-Based Model's accuracy by 30% by fine-tuning PyTorch parameters, allowing researchers to better simulate cell interactions.

## PROJECT EXPERIENCE

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### GT Marketplace | *Typescript, NextJS, ReactJS, Firebase, Python, ExpressJS, NodeJS, HTML/CSS, OAuth2* Apr 2025 – Present

- Designed and implemented a full-stack campus marketplace app enabling students to buy, sell, and trade items with other GT students.
- Includes real-time chats, firebase authentication, and a smart recommendation system for students to dynamically explore the marketplace.

### Georgia Tech RAG Chatbot | *Python, NIM, Docker, ReactJS, PostgreSQL, Scrapy*

Aug 2024 – Dec 2024

- Developed a RAG-based LLM in collaboration with AI@GT and NVIDIA, allowing prospective Georgia Tech students/families to easily get accurate information about the institute.
- Built a robust vector embedding pipeline using Scrapy to scrape relevant data and PostgreSQL to store and manage over a million vectors.

### DeepQuote | *C++, Python, PyBind, PyTorch, Gymnasium, Numpy, Stable-Baseline3*

Jun 2025 – Present

- Building a high-frequency trading simulator processing 10,000+ orders/sec with order flow analysis, order book mechanics, and other features.
- Using reinforcement-learning-based AI agents to compete in this simulated market, achieving 18-dimensional state spaces and supporting cutting-edge trading strategies with real-time PnL tracking.

## SKILLS/INTERESTS

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

**Frameworks:** Node.js, React.js, Next.js, Express.js, FastAPI, Django, Flask, React Native, Bootstrap, Dagger, Spring

**Software:** PyTorch, Transformers, Pandas, Scikit-Learn, PostgreSQL, Firebase, AWS, MongoDB, Docker, Scrapy, Gymnasium, Redux

**Awards:** Ohio Governor's Scholar, Hack OHI/O 1<sup>st</sup> place, Huntington Scholar, Presidential Gold Award, Presidential Undergraduate Research Award

**Leadership:** Events Executive of Trading at GT, President of Taal Tadka Acapella, Team Lead at GROWER Lab,

**Interests:** Technology, Basketball, Weightlifting, Cooking, Travel, Poker, Music