

# GABRIEL ASHKENAZI

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## EDUCATION

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### Georgia Institute of Technology

*Bachelor of Science in Computer Science*

GPA: 4.0/4.0

*Relevant Coursework:* Linear Algebra, Multi Variable Calculus, Discrete Math, Applied Combinatorics, Computer Organization & Programming, Data Structures & Algorithms, Design & Analysis of Algorithms

**Atlanta, GA**

*Aug. 2023 - May. 2026*

## EXPERIENCE

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### Green Key Partners

*Software Engineering Intern*

**New York, NY**

*May - Aug. 2023, 2024*

- Engineering a versioning system for the firm's securities, enabling interaction with a REST API application to emulate market conditions at specific points in time
- Migrated scripts that retrieve data from several cryptocurrency exchanges to AWS Lambda Functions, implementing CI/CD pipelines to increase sustainability and reduce annual computing costs by thousands of dollars
- Led an initiative to monitor high gas fees associated to pending transactions of up to \$200K from the Ethereum mempool, leveraging this data to forecast Ethereum price fluctuations
- Oversaw the implementation of a rigorously back-tested strategy, ensuring precision in trading operations

### Bucephalus Tech

*Full Stack Engineering & Operations Research Intern*

**New York, NJ**

*Aug. 2022 - Jun. 2023*

- Developed the full-stack web application utilizing TypeScript, Express, and PostgreSQL including enhancing the user interface for visualizing demand forecasts and building backend systems to interact with the inventory database and manage user permissions
- Generated inventory and demand forecasts for 150+ partnered Shopify stores, supporting strategic planning and optimizing stock levels for operational efficiency
- Explored Vector Databases to identify patterns between partnered stores by analyzing product similarity using the cosine similarity metric

### Mayo Clinic

*Omics Visualization Capstone Project*

**Hackensack, NJ**

*Sep. 2022 - Jun. 2023*

- Collaborated with the Functional Epigenomics lab to develop a web portal using Next.js, Express.js, Google Bucket, AWS RDS, and R, enabling researchers to automate cell analysis
- Implemented a pipeline to run analysis tools including PCA, clustering and violin plots on an auxiliary server, streamlining the data analysis process
- Presented the web portal to my school and the Functional Epigenomics lab, showcasing its capabilities and receiving feedback from software engineers and researchers

## TECHNICAL SKILLS

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- **Languages:** English, Russian
- **Technologies/Tools:** Python, Java, JavaScript, TypeScript, HTML5, CSS, C, C++, NodeJS, Express.js, Mongo, Next.js, Git, AWS, MySQL, Flask, FastAPI, React, Numpy, Matplotlib, Pandas

## LEADERSHIP

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### Alpha Epsilon Pi Fraternity

*House Manager*

**Atlanta, GA**

*Apr. 2024 - Apr. 2025*

- Manage a \$5,000 semester house & supplies budget, reinvest in house improvements, optimize kitchen operations, refine meal plan
- Direct all vendor and maintenance activities, reducing yearly rent by 10% for house tenants

## AWARDS

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### 5th Kibo Robot Programming Challenge by NASA & JAXA

- Winner of the United States competition and researched computer vision
- Researched and implemented object recognition for the autonomous robot
- Selected to represent NASA and deploy code on the International Space Station in the fall

*2024*