

GABRIEL LOLOEY

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EDUCATION

Yeshiva University, New York

Undergraduate Student in Mathematics with Computer Science

Expected Graduation: May 2027

Relevant course work: Data Structures, Math for Computer Science, Computer Organization, Design & Analysis of Algorithms, Operating Systems

SKILLS

Programming languages: Java, Python, C

Computer software/ frameworks: Git, GitHub, WSL, JUnit, AWS, MongoDB, Redis, Nginx, Linux, Docker

Languages: English & Italian (Fluent), Hebrew (Proficient), Spanish (Conversational)

PROFESSIONAL EXPERIENCE

Quantum Summer Coding School

June 2025

- Completed intensive month-long training in quantum computing fundamentals, with a focus on algorithms, quantum circuits, and post-quantum cryptography applications.
- Explored the intersection of quantum technologies and cybersecurity, emphasizing future challenges and defense strategies.
- Gained hands-on experience with quantum programming tools and collaborated with peers and mentors on applied projects.

Apprenticeship

June–August 2024

- Developed a front-to-back system in AWS for managing positions, trade capture, and calculating live risk, with a team of 5, under the mentorship of 2 Citibank Software Engineers.
- Spearheaded the design and implementation of robust API endpoints for real-time data interaction and seamless system integration.
- Integrated and managed Redis and MongoDB to optimize data retrieval times and ensure fault tolerance.

PROJECTS & EXTRACURRICULAR

PixRUs

Fall 2025

- Developing a web application connecting sports pick sellers and buyers, ensuring transparency and trustworthiness in transactions.
- Using Django for the API, PostgreSQL for the database, and Tailwind CSS with JavaScript for the frontend.
- Facilitating secure and transparent transactions between users in a fair marketplace.
- Planning future integration of advanced technologies like LLMs and AI for enhanced user experience and data insights.

Search Engine

Spring 2024

- Utilized key data structures such as HashMap, Heap, Stack, Trie, and B-Tree.
- Developed the search engine to work with the file system and manage internal memory usage efficiently.
- Tested each component rigorously using Junit to ensure robustness and performance.