

# Moshe Shtaygrud

(845) 512-9834 | New York | [mshstaygrud@gmail.com](mailto:mshstaygrud@gmail.com) | [GitHub](#) | [LinkedIn](#) | [Portfolio](#)

## EDUCATION

### Queens College, City University of New York (CUNY)

Queens, NY

Bachelor of Arts in Computer Science | **GPA: 3.99/4.00**

May 2024

Awards: 4x Presidential Scholar, NYS Academic Scholarship, Blackstone Launchpad Competition Winner

Relevant Coursework: Discrete Structures and Algorithms, OOP, Data Structures, Computer Architecture and Networks, Database Systems, Algorithm Design and Analysis, Software Engineering, Operating Systems, AI, Statistics, Linear Algebra, Calculus

## SKILLS

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

**Frameworks / Libraries:** Node.js + Express.js, React.js + React Router, Bootstrap, Flask, FastAPI, BeautifulSoup, Scrapy, Selenium, NumPy, Pandas, PyTorch, gRPC, OpenAI, JUnit, Redis

**Tools / Platforms:** Linux, Git, AWS, GCP, Azure, Firebase, MySQL, MacOS, Figma, Android Studio

**Language Skills:** English, Yiddish (advanced), French (intermediate), Hebrew (elementary), Russian (novice)

## RELEVANT EXPERIENCE

### Roomful

Suffern, NY

Software Development Internship

Jun 2023 – Oct 2023

- Implemented RESTful endpoints in Python using Flask to enable seamless integration of OpenAI's API.
- Leveraged GPT-4 to train assistants on 3D environmental data, enabling the automated generation of contextual links within Roomful's metaverse, improving user navigation by 45%.
- Engineered a high-performance caching solution using Redis, optimizing low-latency data retrieval for 25,000+ MAU.
- Developed a market order book using Verus PBAAS in Python, facilitating \$500k+ in digital asset transactions within Roomful's 3D virtual collaboration platform, boosting blockchain adoption.
- Gained knowledge in Git/GitHub version control, Agile/Scrum, EC2, test-driven development, and CI/CD.

### Research Foundation - City University of New York (CUNY)

Virtual

Data Automation Internship

Jun 2022 – Aug 2022

- Wrote Python scripts using Selenium web driver to automate and streamline the data migration process of 7,000+ students' internship records. Eliminating the need for manual data entry, resulting in \$40k+ in labor savings.
- Performed data analysis on internship trends within CUNY, using Pandas and Numpy, driving informed decisions.

## PROJECTS

### Trading Simulator, [[Simulator](#), [GitHub](#)]

Oct 2023

- Developed a trading simulator web application using JavaScript, HTML, CSS, providing financial experience to users.
- Engineered robust user authentication with Firebase, managed dynamic data storage using a NoSQL real-time database, and seamlessly integrated real-time financial data from the Financial Modeling Prep API.

### Chatting Application, [[Backend](#), [Frontend](#)]

Nov 2023

- Programmed a communication platform using React and Node.js, incorporating Stream API for efficient data handling and real-time features such as emojis, threads, and group chats, demonstrating advanced full-stack development skills.

### Automated Market Briefing

Dec 2022

- Engineered an automated market briefing tool in Python, utilizing Selenium for web crawling and Pandas for data analysis, to extract top daily stock gainers and compile briefings with AI-filtered news articles.

### Blackstone Launchpad Business Competition Winner

Feb 2024

- Won \$1,600 with a four-member team on a Fintech startup idea, a platform that empowers naive investors.
- Spearheaded UX design and led ideation sessions to develop core features, including an accessible algorithmic trading platform, aimed at democratizing investment opportunities for novice investors.

## SUPPORTING EXPERIENCE

### Monsey Aravos

Warwick, NY

Farming Operations Manager (Seasonal)

Sep 2018 – Present

- Invented a process improvement tactic that reduced project time by 50% saving \$20,000 annually in labor expenses, while actively managing the harvesting and pruning of 22 acres of willows over eight weeks.

### Chess Chevre

Suffern, NY

Chess Instructor

Oct 2023 – Present

- Leading a chess program for a diverse group of 6-14-year-olds, instructing strategic gameplay, pattern recognition, and coaching tournament participation, honing communication abilities and collaborative leadership.