

Moshe Shtaygrud

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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 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.