

Moshe Shtaygrud

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Online Master of Science in Computer Science (OMSCS) | GPA: 3.7/4.00

Expected May 2027

Relevant Coursework: Machine Learning for Trading, Data Visualization and Analytics, Introduction to Information Security

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, Summa Cum Laude

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, SQL, JavaScript, Java, C++, HTML, CSS, Deluge

Frameworks / Libraries: React, Next.js, Node.js (Express/Fastify), FastAPI, Flask, Tailwind CSS, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Redis, Selenium, pytest, LangChain

Tools / Platforms: Linux, AWS, GCP, Azure, Firebase, Git, Docker, MySQL, Postman, Figma, Zoho Suite, N8N, PostgreSQL

RELEVANT EXPERIENCE

Dashline

Montebello, NY

Software Developer

Jun 2025 – Present

- Engineered an autonomous Natural Language-to-SQL Agent using Model Context Protocol (MCP), and N8N that dynamically identifies schemas, interprets business context, and executes context-aware multi-join queries.
- Integrated a Human-in-the-Loop verification workflow and a Python/Matplotlib MCP to dynamically generate executive dashboards, effectively automating the data analyst role.
- Built ETL pipelines to replicate CRM data into AWS Aurora RDS (PostgreSQL), optimizing data availability for agents.
- Orchestrated Event-Driven Architecture using message queues (Pipedream, Zoho Catalyst) to synchronize systems.
- Designed end-to-end business automation workflows (Payroll, Invoicing, Intake, Onboarding) using Deluge scripting.
- Developed custom Full Stack micro-applications embedded within client portals to extend native SaaS capabilities.
- Architected ERPs for diverse clients leveraging the entire Zoho Suite (CRM, Creator, Analytics, DataPrep, Catalyst).

Thryve Teams

Brooklyn, NY

Technical Operations Engineer

Nov 2024 – Jun 2025

- Architected and deployed a Node.js/Fastify server on DigitalOcean, implementing automated business logic for cross-platform data synchronization with CI/CD through GitHub, saving 100+ hours of manual data entry per week.
- Served as HubSpot Super Administrator/Specialist, architected complex automated workflows, analytics, and third-party integrations while enforcing HIPAA compliance and driving a 20% increase in operational efficiency in my first month.

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, boosting blockchain adoption with \$500k+ transactions.
- Utilized Git/GitHub version control, Agile/Scrum, EC2, test-driven development, and CI/CD.

PROJECTS

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

Oct 2023

- Developed a trading simulator web application using JavaScript, HTML, CSS, providing financial experience to users.
- Set up 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.

VertiSite: Urban Air Mobility Planner [[Demo](#), [GitHub](#)]

Nov 2025

- Architected a geospatial platform using D3.js and Python to optimize vertiport placement, processing 5M+ trip records.
- Engineered an ETL pipeline merging disparate taxi and census datasets to accurately model urban demand density.

Blackstone Launchpad Business Competition Winner

Feb 2024

- Won \$1,600 with a four-member team on a Fintech startup idea that empowers users with an accessible algorithmic trading platform, aimed at democratizing investment opportunities for novice investors.