Matthew Shvorin

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EXPERIENCE

Jack Jaffa & Associates, Brooklyn, New York   Feb. 2025 - Present

Software Engineer — Development & Solutions Team

- Delivered custom ASP/SQL tools powering inspection ops across multiple departments - boosting efficiency, increasing on-time inspections by 30%, and streamlining reporting and invoicing workflows.
- Reengineered Classic ASP + ABCPDF reporting engine with modular architecture and query optimizations reducing runtimes by over 120% and enabling sub-30-second, customizable reports.
- Saved hours daily by automating a fault-tolerant vehicle-violation layer with Selenium scraping and reCAPTCHA v2 solving — enabling client workflows, API vehicle-data enrichment, low-API-credit alerts, and log/error-report emails.

SDM Financial, Brooklyn, New York   Jun. 2023 - Feb. 2025

Derivatives Software Engineer / Analyst — Derivatives and Spot Teams

- Built ETL pipelines on AWS EC2 to integrate real-time data from Deribit, ByBit, and Coinbase APIs, transforming it with Pandas and NumPy for seamless storage in PostgreSQL and Google Sheets.
- Implemented a Deribit trade alerting bot that boosted response times from 3-5 minutes to seconds, providing instant order status updates, reducing trade discrepancies by 35%, and increasing confidence in trade execution.
- Automated complex financial reporting workflows, reducing multi-hour processes to a one-click solution, saving 3,000+ hours annually by automating 50+ reporting workflows.

J.P. Morgan Chase, Manhattan, New York   Jan. 2023 - Feb. 2023

Software Engineering Intern — Data Analysis Team

- Leveraged AI tools to automate complex reporting workflows, deployed production-ready code via CI/CD pipelines, ensuring smooth functionality across all environments through automated testing and deployment reviews.
- Built an automated trade-performance email system comparing manual vs. software-managed trades.

EDUCATION

Hunter College, New York, NY   May 2025

Bachelor of Science in Computer Science   GPA: 3.54

Dean's List: Fall 2021, Spring 2024, Fall 2024

PROJECTS

Discord Reminder Bot — *Python, MongoDB, AWS ECS, AWS CloudWatch, Git Actions, Docker*   July 2023 – Present

- Deployed a scalable Discord bot on AWS ECS with Docker, leveraging MongoDB for data storage and maintaining 99.9% uptime with 1,000+ daily users.
- Enhanced security and accelerated development cycles by integrating AWS Secrets Manager for secure credential management, implementing real-time monitoring with AWS CloudWatch, and automating testing and deployment through CI/CD pipelines with GitHub Actions, reducing incident response times by 60%.

MISK - Real-Time Stock News Platform — *Python, Flask, PostgreSQL, React, TypeScript*   Jan. 2024 - Jul. 2024

- Developed a real-time stock news platform delivering instant financial insights to over 100 users, featuring LSTM-modeled price predictions and sentiment analysis, enhancing user trading decisions by 35%.
- Implemented an automated notification system providing brief summaries for subscribed users.

SKILLS

Languages	Python, Java, JavaScript, TypeScript, C#, .NET, C++, Swift, SwiftUI, UIKit
Web	HTML, CSS, React, ASP.NET, Vbscript, Webpack, Nodejs, JQuery, REST, Websockets, Flask
Database	SQL, MySQL, PostgreSQL, SQL Workbench, MongoDB, AWS RDS, Heroku
Data Science/Tools	Jupyter, NumPy, Pandas, PyTorch, Matplotlib, Tableau, VSCode, PyCharm, CLI, AWS EC2/ECS
Others	Git, OpenAI, Bash, Powershell, Cron, API, Linux, MacOS, Jira, Docker, Github Actions