

Sam Pomerantz

career@sampomerantz.me • (312) 927-2400

Personal Website:
<https://sampomerantz.me>

EDUCATION

Boston University, School of Computing & Data Science
Bachelor of Arts in Computer Science

May 2023
GPA: 3.84/4.00

Boston University, Questrom School of Business
Bachelor of Science in Business Administration, concentration in Data Analytics

Relevant Coursework: Data Structures & Algorithms, Computer Systems, Software Engineering, Database Systems, Financial/Managerial Accounting, Financial Management, Information Systems, Computational Finance

PROFESSIONAL EXPERIENCE

Amazon, Seattle, WA

May 2022 – September 2022

Software Development Engineering Intern

- Automated the creation of three NoSQL databases storing pre-calculated information of Prime members via CloudFormation.
- Engineered backend infrastructure, APIs, data validation, and unit tests for the three DynamoDB regional databases in Java.
- Collaborated with the Prime Student team to integrate the APIs into two retail checkout locations (PIN and TryPrime).
- Managed project deliverables with Agile Development frameworks Kanban and Scrum to keep the team informed on progress.

The LegalTech Fund, Boston, MA

November 2020 – September 2021

Software Engineering Intern

- Created a scalable database and management system on Amazon AWS, tracking 300+ potential investments for the fund.
- Deployed a Python program to detect, categorize, and push news alerts regarding 50+ select companies from the AWS system.
- Saved 20 hours a week of labor by automating the financing directory in Python, tracking rounds and funding information.

Apollo, New York, NY

June 2020 – October 2020

Software Engineering Intern

- Implemented various webhooks and APIs in Java to import and analyze data from 100+ NASDAQ listed tickers using Quandl.
 - Programmed reactive applications in Java to stream market data and perform interpretation to find opportunities in real-time.
 - Analyzed large-scale historical stock data looking for patterns and developing indicators using Python, Pandas, Selenium, and Machine Learning (AutoGluon AI, TensorFlow ML). Improved run-time by more than 90% using a parallel systems approach.
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PROJECTS & LEADERSHIP

Machine Learning Score Predictor, *Desktop Application in Python*

May 2022 – July 2022

- Applied AutoGluon's Natural Language Processing and TabularPredictor to train a model predicting sentiment score from text.
- Remodeled hyperparameters, evaluation metrics, data pre-processing, and stop words to improve model fitness to 84%.

MBTA iOS Tracker, *Mobile Application in Swift*

February 2022 – April 2022

- Developed a mobile application for Apple devices in Swift to easily track upcoming MBTA Trains at certain stations.
- Utilizes Google OAuth user authentication, Swift data persistence, and is compatible with mobile and tablet devices.

Unusual Volume Detector, *Web Application in Python and JavaScript*

July 2020 – December 2021

- Created a program in Python which retrieves historical data from 500+ NYSE stocks and detects significant volume variance.
- Produced a visualization website for the program in React receiving over 60,000 viewers per week upon launch and ranking #3 on Google Search. The website is automatically updated via a Raspberry Pi and available at <https://unusualvolume.info/>.

Options Analyzer, *Desktop Application in Python*

March 2020 – August 2020

- Constructed a series of programs in Python which display market and derivatives data as interactive 3D graphs and heat maps.
- Facilitates the understanding of derivative activity behind any given stock alongside helpful visualizations in under 10 seconds.

Boy Scouts of America, Wilmette, IL

September 2010 – July 2020

Eagle Scout, National High Honor Society Vice President, Senior Patrol Leader

- Developed weekly plans and activities for meetings, service projects, outreach events, and 500+ hours of community service.
 - Spearheaded the planning, sourcing, construction, and upkeep of 250 feet of new trail in the Blue Star Memorial Forest.
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TECHNICAL SKILLS

Programming: Java, Python, Swift, C, JavaScript, HTML, CSS, VBA, Object-Oriented Programming, Data Structures

OS & Database: SQL, NoSQL, DynamoDB, Amazon AWS, Windows, MacOS, Linux, Raspbian, VirtualBox, VMWare

Additional: Git, JSON/XML, Excel, AutoCAD, Data Visualization, Project Management, Agile Development, System Design

GitHub: <https://github.com/sampom100/>