SIMON YANG

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EDUCATION

NYU Stern School of Business   **New York, New York**
BS in Data Science and Finance, Minor in Computer Science   *Sep 2016–May 2020*
- **GPA:** 3.7/4.0, Dean's List
- **Coursework:** Decision Models & Analytics, Data Structures, Machine Learning, Micro & Macroeconomics, Linear Alg.
- **Campus Involvement**: Business Analytics Club (member), CS + Social Good (member), NYU University Singers (Baritone)

PROFESSIONAL EXPERIENCE

Amazon Web Services   **New York, New York**
Software Development Engineer, Amazon Connect   *Jul 2022–Present*
- Building authorization and authentication features for Amazon Connect, a cloud-based contact center platform serving millions of users, utilizing Java, AWS CDK, DynamoDB, Elasticache, ECS, IAM, and other tools.
- Developed components for the launch of hierarchy-based access control in Amazon Connect, providing customers a scalable way to enforce granular permissions which eliminated manual configurations of 6,000+ tags and security profiles.
- Led projects to migrate our team's authentication and authorization service from internal services to native AWS by authoring design documents, collaborating with sister teams and senior engineers, and executing implementation to impact all Connect users.
- Optimized security profile CRUD operations to be idempotent, eliminating faults for users due to race conditions.
- Built scripts to automate operational tasks using Java and bash, reducing team manual efforts by 75%.

Millennium Management LLC   **New York, New York**
Risk Analyst, Equities   *Jul 2020–Jun 2022*
- Reported PnL and risk exposure directly to senior management across various business lines using Excel, R, and SQL.
- Actively monitored the risk and composition of 30+ different portfolios across technology, financials, and real estate sectors by querying data in SQL, R, and Excel, and using internal tools.
- Built SQL data pipelines to enable the calculation of Risk metrics and automation of reports that previously existed in Excel.
- Constructed performance dashboards using R Shiny, linking SQL servers with GUIs to automate weekly reporting.
- Cleaned and maintained incoming relational data on SPACs, enabling the calculation of SPAC exposure and capital to be reported directly to senior management.
- Built automated email reports to note high-risk guideline overages using R, reducing guideline overages by over 70%.

Risk Management Summer Analyst, Equities   *Jun 2019–Aug 2019*
- Constructed a risk factor to measure exposure to a cyclical-defensive tilt using R, capturing a $150MM drawdown in PnL.

OWAL   **New York, New York**
Software Developer Intern   *Oct 2018–Dec 2018*
- Developed a time-series anomaly detector to spot unusual object behavior in surveillance footage using ARIMA models implemented through Python and SQL. This alerted building owners of ongoing suspicious activity and loitering.

PROJECTS

MTA Subway Tracker   *Mar 2022*
- Independently developed an application to replicate the behavior of the MTA's subway arrival tracker. Using the MTA's realtime GTFS feed, I was able to display arrival information for incoming trains in order to time my own commutes. Implemented using Python, HTML, and Javascript.

Sniff.ly   *Oct 2018–Dec 2018*
- Worked with a team of 4 to create a web application to track over 200 celebrities by scraping Twitter data. Using natural language processing and the Twitter API, we were able to accurately "sniff" out celebrity sightings across the US. Implemented using Python, SQL, JavaScript, HTML, and IBM Watson.

SKILLS, INTERESTS, HOBBIES

- **Programming Languages:** Java, Python, R, SQL, C, JavaScript
- **Development Libraries:** AWS CDK, JUnit, Guice, pandas, matplotlib, ggplot, NumPy, tidyverse, BeautifulSoup
- **Tools:** Git, Linux, AWS, Bloomberg Terminal, Microsoft Office
- **Speaking Languages:** English (Native), Chinese (Fluent)
- **Interests:** NBA, Tennis, Choir, Keyboard Shortcuts, Super Smash Bros.