

## TECHNICAL SKILLS

Strong: Scala, Java, Python, JavaScript, Spark, Kafka, JupyterHub, MongoDB, React, Angular, Node, TeamCity

Experienced: AWS, Azure, HBase, Hive, MySQL, Postgres, Firebase, C#, Spring, Jenkins, Puppeteer, Mocha, Chai

## WORK EXPERIENCE

TD Securities – New York, NY 2020 – Present

FIC eTrading, Senior Software Engineer

- Overhauled legacy Broadway-based eFX algo platform backend to utilize proprietary, Solace-driven data mesh framework
- Integrated the eFX platform with its first external algorithm offering for firm clients and internal traders
- Achieved nanosecond-level data transmission across internal backend systems by utilizing complex off-heap, zero-contention Java patterns

TD Securities – New York, NY 2017 – 2020

Big Data Tech Lead, Senior Software Engineer

- Architected and managed an internal data analytics platform with over one thousand users
- Built a fleet of high-throughput, streaming ETL and analytics pipelines with Spark Structured Streaming in order to handle over 100,000 messages per second
- Drove margin expansion across various business lines by enabling data-driven decisions with cutting-edge tools
- Answered the need for zero-runway analytics with a suite of front and backend data agnostic products
- Replaced myriad legacy workflows and applications with JupyterHub/Dash, React web apps, and custom Spark-based analytics

Hack Reactor – New York, NY 2017

Software Engineering Associate Instructor

- Mentored students in vanilla JavaScript, Node, Angular, React, and various other libraries and frameworks
- Lectured students on important concepts like promises and the event loop, as well as tools like Postman and Charles

UBS Private Wealth Management – New York, NY 2008 – 2017

Portfolio Manager

- Constructed, presented, and implemented strategic asset allocations for High Net Worth clients
- Organized and led quarterly client meetings centered around proposing new allocation ideas in order to win new assets from clients' investments at competing firms
- Traded bonds, equities, ETFs, currencies, options and other derivatives in trades up to \$75MM in value

Morgan Stanley – New York, NY 2006 – 2008

Sales Associate

- Analyzed new and existing portfolios' risk levels and expected growth to determine if they remained within the boundaries of each client's investment mandate
- Ensured all cash transfers, disbursements, and bill payments were processed on time
- Onboarded all new clients through new account documentation and KYC requirements

## EDUCATION

Hack Reactor	Advanced Software Engineering Immersive	2017
Vanderbilt University	History Major – Concentration in East Asian History	2006

## PERSONAL

I'm a native New Yorker and tech fanatic. In my spare time, I relax in Prospect Park, play games, or tell myself I'm going to exercise.