ALEXANDER G. SILVERSTEIN

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Experience

Private High-Frequency Trading Firm — New York, NY
Cofounder — *June 2021 - Present*
- Built a complete greenfield high-frequency trading stack making 10k trades daily
- Designed and built trade simulation and optimization library
- Designed and built our web-based trading dashboard
- Profiled and optimized our Python and Go stacks
- Primary designer for trade strategies

Tableau (acquired by Salesforce) — Cambridge, MA
Principal MTS — *June 2018 - June 2021*
- Designed and developed statistical features in Tableau
- Helped design and implement Explain Data, one of two highlighted features in 2019.3
- Wrote a cost/benefit analysis of scaling our build grid, resulting in a 30 minute reduction in precommit

Empirical Systems (acquired by Tableau) — Cambridge, MA
Software Engineer — *May 2016 - June 2018*
- First non-founding engineer. Helped grow team to five before acquisition
- Built web-based statistical programming platform backed by AWS and Docker
- Built our Flask-based Python server and designed and implemented our public REST interface
- Implemented a number of models in our C++ statistics engine
- Built and maintained our public Python API, edpanalyst, and our Google Sheets integration
- Served as sales engineer and public statistics consultant

Google — New York, NY
Senior Software Engineer — *June 2012 - May 2016*
- Tech Lead of Google Contributor team
- Led integration of real-time bidder and Google's payments infrastructure
- Built a widely-used internal Chrome extension for shortening URLs

DRW Trading Group — London, England
Senior Software Engineer — *July 2010 - June 2012*
- Developed and supported proprietary, web-based trading platform

Carnegie Mellon University - Qatar — Doha, Qatar
Teaching Assistant — *January 2009 - May 2009*
- Served as Teaching Assistant for three undergraduate computer science courses

Amazon.com — Seattle, WA
Software Development Engineer Intern — *May 2008 - August 2008*
- Developed migration utility from Simple Storage System to Elastic Block Storage

Education

Redwood Research — San Francisco, CA
ML for Alignment Bootcamp — *August 2022*

Carnegie Mellon University — Pittsburgh, PA
B.S. in Computer Science — *Graduated May 2010*
- Graduated with University Honors
- Minor in Economics
- GPA: 3.53

Skills

Computer Languages: Proficient in Python, C++, Java, LaTeX
Competent in Javascript, Go, Vue, HTML, CSS, UNIX Shells, Haskell, SQL

Tools: Git, various AWS services, Docker, Intellij, JUnit, Vim