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

- **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