

DAVID BREWSTER

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EDUCATION

University of Illinois at Urbana-Champaign
B.S. Computer Science, Minor in Mathematics

August 2016 - Present

TOOLS

Programing Languages C/C++, Python, JavaScript, Go
Frameworks Numpy, Torch, Matplotlib, Node.js, React

PROFESSIONAL EXPERIENCE

Citadel Securities
Software Engineering Intern

May 2019 - Present
New York, NY

- Worked on the full stack of a couple of websocket streamers for traders
- Created a profile manager service which uses Redis as a data store

Citadel
Software Engineering Intern

September 2018 - December 2018
Chicago, IL

- Developed the full stack of a websocket application for traders that shows aggregated tick data from various stock exchanges
- Created, refactored, and improved performance in a few data loaders
- Added new functionality to a couple of internal market data libraries used throughout the company

Two Sigma IQ
Software Engineering Intern

May 2018 - August 2018
New York, NY

- Supported the automation of data ingestion pipelines by writing various web services
- Helped with quality control on processed datasets by recording statistical trends

Microsoft
Software Engineering Intern

January 2018 - April 2018
Redmond, WA

- Added a visual tool to the Update Management section of the Azure Portal
- Significantly reduced the amount of time taken for users to diagnose failed updates on their computers
- Visual tool aggregates common error messages into a single pattern

Google
Software (Site Reliability) Engineering Intern

May 2017 - August 2017
New York, NY

- Created a tool to predict cache hits/misses on different Memcached instances
- Developed a TensorFlow server that continuously trains on recent cache lookups in order to improve predictions

SCHOOL-RELATED EXPERIENCE

CS 126
Software Design Studio Teaching Assistant

August 2017 - Present
Champaign, IL

- Graded and critiqued students' programming assignments

Carl R. Woese Institute for Genomic Biology
Research Assistant

November 2016 - March 2017
Champaign, IL

- Worked in collaboration with Argonne National Laboratory on the Exascale Computing Project (ECP)
- Assisted in developing the ECP Cancer Distributed Learning Environment (ECP-CANDLE) benchmarks

PROGRAMMING SITES

- Project Euler — Computational Mathematics — 120+ problems solved
- Rosalind — Computational Biology — 60+ problems solved

MEMBERSHIPS

- Illinois Programming League (IPL) — team placed 13th out of ~ 100 at 2017 Mid-Central Regional ICPC
- Blacks and African Americans in Computing (BAAC @ Illinois) — member