DAVID BREWSTER

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EDUCATION

University of Illinois at Urbana-Champaign   August 2016 - Present
B.S. Computer Science, Minor in Mathematics

TOOLS

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

PROFESSIONAL EXPERIENCE

Citadel Securities   May 2019 - Present
Software Engineering Intern   *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   September 2018 - December 2018
Software Engineering Intern   *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   May 2018 - August 2018
Software Engineering Intern   *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   January 2018 - April 2018
Software Engineering Intern   *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   May 2017 - August 2017
Software (Site Reliability) Engineering Intern   *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   August 2017 - Present
Software Design Studio Teaching Assistant   *Champaign, IL*
· Graded and critiqued students' programming assignments

Carl R. Woese Institute for Genomic Biology   November 2016 - March 2017
Research Assistant   *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 — 140+ 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