# 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

May 2019 - Present

Software Engineering Intern

New York, NY

- · Worked on the full stack of a couple of websocket streamers for the Options Market Making (OMM) traders
- · Created a profile manager service which is being incorporated into all existing OMM UIs as an alternative to NTFS based storage

Citadel

September 2018 - December 2018

Chicago, IL

Software Engineering Intern

Chicago, 11

- · 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

New York, NY

Software Engineering Intern

- · 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

Redmond, WA

Software Engineering Intern

- · 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

Software Design Studio Teaching Assistant

CS 126

August 2017 - Present

Champaign, IL

· Graded and critiqued students' programming assignments

Carl R. Woese Institute for Genomic Biology

Research Assistant

Worked in collaboration with Argonne National Laboratory on the Exascale Computing Project (ECP)

Champaign, IL

November 2016 - March 2017

· 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  $13^{\rm th}$  out of  $\sim 100$  at 2017 Mid-Central Regional ICPC
- · Blacks and African Americans in Computing (BAAC @ Illinois) member