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, Java, Go, JavaScript
Frameworks Numpy, Matplotlib, Torch, Node.js, D3, React

PROFESSIONAL EXPERIENCE

Citadel LLC 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

CS 196 August 2017 - December 2017
Homework Writer *Champaign, IL*

- Helped develop a Python autograder
- Co-wrote weekly programming problems for the class

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

RELEVANT COURSES

Computer Systems Engineering, Algorithms, Models of Computation, Machine Learning, Competitive Algorithmic Programming Probabilty Theory, Graph Theory, Number Theory, Numerical Methods, Linear Algebra