DAVID BREWSTER

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Focus

I am a Computer Science Major with a Minor in Mathematics. I focus on Theoretical Computer Science and Cryptography. I am looking for internship and co-op opportunities for 2017.

Professional Experience

Google Inc., New York, NY
Software Engineer, exp. May 2017 – August 2017
- Will help develop an autonomous system for predicting the root causes of faulty computers/machines

Volume Technologies, Urbana, IL
Application Developer, October 2016 – Present
- Developed auto-email tasks and live twitter feed stream web app for the tech startup

Carl R. Woese Institute for Genetic Biology, Champaign, IL
Research Assistant for Professor Sergei Maslov, October 2016 – Present
- Implementing a spectral graph convolutional neural network to classify cancer types based on DNA mutations running on an Argonne National Laboratory supercomputer using NumPy, TensorFlow, and Keras

Gloucester Parks and Recreations, Gloucester, VA
Application Developer, exp. May 2015 – June 2016
- Co-designed and co-developed an Android mobile navigation application for the 2016 Gloucester County Daffodil Festival as a replacement for the paper maps used in previous years

Projects

Variations on a Theme, Urbana, IL
Application Developer, September 2016 – December 2016
- Helped design and implement a melody/theme finding algorithm given a MIDI file

React, Urbana, IL
Application Designer and Developer, October 2016 – December 2016
- Created an Android app that matches users based on human face analytics

Competitions

MITRE CTF
September 2016
- Team placed 15th in an online cybersecurity competition with over 200 teams

Phillips Academy CTF
April 2016 – May 2016
- Team placed 8th in an online cybersecurity competition with over 400 teams

Project Euler
March 2015 – Present
- A site with a collection of tough mathematical problems
- I am ranked in the 99th percentile (top 6k of 700k members)

Education

University of Illinois at Urbana-Champaign, Champaign, IL
Bachelor of Science in Computer Science exp. May 2019

- Notable Coursework: Discrete Structures, Data Structures, Number Theory, Linear Algebra
- Member of ACM-ICPC group and IPL (Illinois Programming League)

Governor's School for Science and Technology, Hampton, VA
Advanced Diploma with focus in Scientific Programming June 2016

Programming Skills

- Proficient: Python, Java, C#, F#, WPF, J (APL dialect)
- Intermediate: C++, Haskell, NumPy, Keras
- Basic: Bash, C, Rust, JavaScript