Izaak A. Miller

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EXPERIENCE

Blockchain Analytics LLC - *Fullstack Developer*
Madison, WI; May 2018 - Current

- Automating and refining models for portfolio reallocation, arbitrage and technical analysis-based trading
- Developing an Electron based front-end to create a friendly, intuitive and easy-to-use GUI for the desktop application using Node.js
- Transitioning the code base from Ruby to Golang, which included translating previous existing libraries and algorithms

General Dynamics Electric Boat - *Informational Technology Intern*
Groton, CT; May 2017 - August 2017

- Built and oversaw database of employee assets
- Automated asset management process to minimize work overhead, which included developing a UI that allowed users to quickly locate assets in need of updates
- Contact employees with outdated hardware and alerted them to update hardware
- Aided migration of mail clients (IBM to Google)

University of Wisconsin - *Bioinformatics Internship*
Madison, WI; June 2016 - August 2016

- Reprogrammed VizBin, a Java-based GUI application, so it could be run by command line in a Linux environment
- Developed various Python programs to taxonomically filter sequencing data and assess the quality of genome clusters

Allegheny College - *How Static & Dynamic Images Assist Human Problem Solving* - Senior Thesis
Meadville, PA; September 2017 - May 2018

- Determined effectiveness of different teaching methods and humans ability to comprehend new concepts
- Used Unity, a game development platform, to create knot tying animations
- Collected and analyzed data after testing thesis on humans

ACHIEVEMENTS

Allegheny College - *Alden Scholar*
Meadville, PA; August 2014 - May 2018

Allegheny College Soccer - *All Conference/Captain*
Meadville, PA; August 2017 - October 2017

EDUCATION

Allegheny College, Meadville, Pennsylvania
August 2014-May 2018
B.S. Computer Science
Minor - French
Intermediate French Speaker

Relevant Courses:
- Software Engineering
- Web Development
- Visual Computing
- Distributed Systems
- Theory of Computation
- Formal Languages
- Principles of Database Systems
- Analysis of Algorithms
- Data Communications & Networks
- Principles Computer Organization
- Programming Language Concepts
- Operating Systems
- Bioinformatics
- Intro to Artificial Intelligence
- Intro to Computability Theory
- Linear Algebra

PROGRAMMING LANGUAGE KNOWLEDGE
- Javascript
- CSS
- Python
- Java
- Node.js
- Mysql
- Golang
- C
- LaTex

OUTREACH & VOLUNTEERING
- Senior Living Home, Meadville, PA
- Make A Difference Day, Meadville, PA
- Soup Kitchen, Norwich, CT