Richard Scherrer

Computer Science Undergraduate at the University of Illinois, Urbana-Champaign

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Education

University of Illinois, Urbana-Champaign

- Major: Computer Science & Astronomy
- Expected Graduation: Spring 2020
- GPA: 3.5

Montgomery Bell Academy

- Graduated June 2016

Professional Experience

Research Assistant, United States Naval Observatory (May 2015 - August 2015)

- Location: Nashville, TN (Outpost at Vanderbilt University)
- Reference: Dr. Susan Stewart
- Occupation: Assisted in big data, used Python 3 architecture to catalog celestial objects. Additionally, pioneered new way of mapping stars to the globe topologically.

Research Internship, Vanderbilt Institute for Integrative Biosystems Research and Education (May 2016 - August 2016)

- Location: Nashville, TN
- Employer: Omero Mario Avaldi
- Used Arduino and C to create monitors of temperature, pressure and humidity for use in lab environments. In addition, contributed to pharmacokinetic/pharmacodynamic project.

Backend Internship for Hashed Health, LLC (July 2017 - August 2017)

- Location: Nashville, TN
- Reference:
- Used Solidity, Tendermint, Truffle, and golang for blockchain solutions to problems inherent to healthcare infrastructure.

Focus

I am a computer science student with a focus on blockchain initiatives, big data, and NLP. I'm looking to obtain a position at a software institution or company for Summer 2018.

Research Papers & Projects

2017 - **Research Paper on Primordial Nucleosynthesis of Beryllium** (R.T. Scherrer & R.J. Scherrer, Physical Review D, Submitted): https://arxiv.org/abs/1707.03852

2017 - For CS 126, Software Design Studio - Created **MeloChat, a P2P chat app for Android** which used the Soundcloud API for smart embedding of audio clips from untailored URLs.

2016 - For CS 196, Freshman Honors - Team leader for **The Nao Project, a blogging app for Android** which utilized ephemerality to enrich user experience.

2015 - Created **AstroNimy, an astronomical library** for the Nim programming language.

Proficiencies

Advanced knowledge in Python, Java, Solidity, C++, Android, and Javascript
Proficient in C, golang, nodejs, and Perl
Basic Knowledge of Rust, Tensorflow, and Nim