# Richard **Scherrer**

SOFTWARE DEVELOPER

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## Summary

I am a computer science student at the University of Illinois, Urbana-Champaign with varied experience in fields ranging from computational legal work to big data analysis. I'm looking to obtain a position at a software institution or company for the summer of 2019.

## Work Experience

**Fulcrum GT**                                                                                      *Chicago, IL*

FRONTEND DEVELOPER                                                                        *May 2018 - August 2018*

- On a team of developers, designers, and businesspeople, created a property tax appeal application for use in Cook County Property Tax Appeal Assessments
- Using an infrastructure focused on ease of use and automation, utilized Kubernetes, React, Flask, Sass, and PostgreSQL to create a fully functioning prototype ready for the market by the end of the summer
- The application will continue to be developed by Fulcrum GT for potential release later this year

**Hashed Health, LLC**                                                                        *Nashville, TN*

BACKEND DEVELOPER                                                                          *July 2017 - August 2017*

- Used Solidity, Tendermint, Truffle, and golang for blockchain solutions to problems inherent to healthcare infrastructure
- Implemented an application for analysis of Fitbit data to be sent to one's general practitioner
- Additionally, implemented an application for the transfer of a doctor's legal documents safely and securely over blockchain for medical practice in other states

**Vanderbilt Institute for Integrative Biosystems Research and Education**                   *Nashville, TN*

RESEARCH INTERN                                                                            *May 2016 - August 2016*

- Used Arduino and C to create monitors of temperature, pressure and humidity for use in lab environments
- In addition, contributed to pharmacokinetic/pharmacodynamic project

**United States Naval Observatory**                                                            *Nashville, TN*

RESEARCH ASSISTANT                                                                         *May 2015 - August 2015*

- Assisted in big data, used Python 3 architecture to catalog celestial objects for use in The Nautical Almanac
- Additionally, pioneered new way of mapping stars to the globe topologically

## Education

**University of Illinois, Urbana-Champaign**                                               *Urbana-Champaign, IL*

B.S. IN COMPUTER SCIENCE AND ASTRONOMY                                              *August 2016 - Exp. May 2020*

- GPA: 3.5
- Relevant Coursework: CS 241 (Systems Programming), CS 233 (Computer Architecture), CS 225 (Data Structures), CS 196 (Freshman Honors), CS 173 (Discrete Structures), CS 126 (Software Design Studio), CS 125 (Introduction to Computer Science)

## Research Papers and Projects

### ASTROPHYSICS

| 2017 | **Big Bang Nucleosynthesis with Stable $^{8}$Be and the Primordial Lithium Problem**, R.T. Scherrer and R.J. Scherrer | *Physical Review D, In Press* |

### APP DEVELOPMENT

| 2017 | **MeloChat, a P2P chat app for Android,** is an application which interfaces with the Soundcloud API for smart embedding of audio clips from untailored URLs. This opens up new opportunities to chat in a mixed-media platform. | *CS 126* |

| 2016 | **The Nao Project, a blogging app for Android,** is an application where the user's old posts are automatically removed with the posting of new ones. This allows for an uncluttered user interface. | *Team Project* |

| 2015 | **AstroNimy, an astronomical library,** is a package for the Nim programming language that allows astronomers and cosmologists to utilize the unique attributes of this language without having to do unnecessary work | *Online Library* |