

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

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|------|---|------------------------------------|
| 2017 | Big Bang Nucleosynthesis with Stable ^8Be and the Primordial Lithium Problem , R.T. Scherrer and R.J. Scherrer | <i>Physical Review D, In Press</i> |
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APP DEVELOPMENT

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| 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. | <i>CS 126</i> |
| 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. | <i>Team Project</i> |
| 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 | <i>Online Library</i> |