

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

- Of 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)

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. | 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 |