

# Christopher Walker

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GitHub: <https://github.com/cnwalker> | Website: [cnwalker.github.io](http://cnwalker.github.io)

## Education

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### University of Chicago

Chicago, IL | 2014 – June 2018

- B.S., Computer Science & Physics
- University Scholar (\$30,000/year merit scholarship).
- Relevant coursework: Networks and Distributed Systems, Intermediate Mechanics, Statistical Models and Methods, Electricity and Magnetism, Introduction to Computer Systems

### Ethical Culture Fieldston School

New York, NY

High School

2010 – 2014

- Student Body President, Cross-country Captain, National Achievement Scholarship finalist.

## Experience

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FLASH Center for Computational Science

Chicago, IL

### Software Engineer and Research Assistant

January 2016

- Creating graphical interface for FLASH computational physics codebase, allowing users to configure and run physics simulations without using the command line.
- Identified a few Mac OSX compatibility bugs in the FLASH code after running a series of two-dimensional core collapse supernova simulations.

Human Practice, Inc.

Chicago, IL

### Software Development Intern

June - September 2015

- Implemented incremental loading and infinite scrolling for encrypted messaging system in medical app.
- Improved load times for entering a conversation from  $O(n)$  to  $O(1)$ , drastically reducing visual hiccups for conversations with more than 200 messages.
- Implemented address grooming for office search and custom merge behavior for database records. Added customer support system to the app with Apache Cordova and Objective C.

University of Chicago IT Services

Chicago, IL

### 2015 App Challenge Software Development Intern

March – May 2015

- Won the \$10,000 first place prize for Open Macro, an open source economic modelling platform currently scheduled for use and distribution by the International Monetary fund.
- Created asynchronous file reading and writing system for managing thousands of files with Node.js, allowing the user to easily run economic models.
- Implemented graphing for simulations with C3 (D3 extension), including feature to overlay disparate datasets on the same graph.

TechTeam at the University of Chicago

Chicago, IL

### Programmer and Team Member

October 2014

- Taught Python and Git lessons to the data team.
- Working on data visualization project for Illinois Campaign for Political Reform.

## Skills

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Main languages: Python, JavaScript, C, HTML/CSS | Familiar languages: Java, Objective C, C++, R.

Frameworks & Databases: Django, Angular, Ember, Cordova, Arduino, Node.js, MongoDB, FLASH, MESA.

**Visit [cnwalker.github.io](https://cnwalker.github.io) for links to projects and more information.**