3043 Shenandoah Drive, Carpentersville IL, 60110

□ (630)-258-9946 | ■ tburchfi@nd.edu | □ TBurchfield | □ tburchfield

Education

University of Notre Dame

Computer Science and Cybersecurity Concentration

Aug. 2016 - Exp. May 2019

Jan. 2018 - Present

Aug. 2017 - Present

Jun. 2015 - Jul. 2015

NOTRE DAME, INDIANA · Current GPA: 3.90

Experience_

Basekernel Notre Dame, Indiana

PROFESSOR DOUGLAS THAIN

Contributor for basekernel, an minimal kernel based on the idea of hierarchical containment.

· Designed user-level shell.

South Bend Code School South Bend, Indiana

FRONTEND WEB DEVELOPER

• Web Developer consulting with local companies through South Bend Code School.

- Atlas3D Main developer on Vue. is single page app which interfaces with GraphQL database.
- Notre Dame Benefits page Assistant developer on internal Pug (formerly Jade) static site.

Fermilab Batavia, Illinois

DATA ANALYSIS & VISUALIZATION INTERN

• Improved the data reduction and visualization pipeline for a new type of telescope camera in Python.

• Collaborated with a team of about 20 on the camera's data processing, error analysis modules, and documentation.

Skills

LANGUAGES, TOOLS, & OPEN SOURCE CONTRIBUTION

- Pvthon, C. C++, MATLAB, Verilog, JavaScript.
- · Linux, Git, Node, Bash, VueJS, GraphQL.
- Borg contributor (>3300 stars on Github), Cursello manager, Devkit contributor.

Systems programming, functional programming, multiprocessing, memory management, system calls, networking.

Honors & Awards_

UNIVERSITY OF NOTRE DAME

Suzanne and Walter Scott Scholars Program, Awarded to students in the top 3% of the admitted class "who 2016 have demonstrated outstanding academic achievement [...] and who are committed to service in their Present communities".

2016 -Present

Dean's List, Top 30% GPA in College of Engineering.

Projects

Manager Cursello, Curses-based task tracking client. cursello cursello **DevKit**, Core code toolkit for software developers. cursello cursello Contributor Documentation BorgBackup, Deduplicating backup program. (>3000 stars on Github). cursello cursello Contributor Team member Language Net, Proof of concept neural network to teach machine learning. 1 language-neural

Extracurricular Activity _____

Linux User Group of Notre Dame

MEMBER & VICE PRESIDENT

- · Organizes talks from members, faculty and guests.
- · Plans projects and events.

Notre Dame, Indiana

Aug. 2016 - Present