Timothy R. **Burchfield**

COMPUTER SCIENCE · NOTRE DAME
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Education

University of Notre Dame

Computer Science and Cybersecurity Concentration

NOTRE DAME, INDIANA

Aug. 2016 - Exp. May 2019

- Current GPA: 3.90

Experience

Basekernel

Notre Dame, Indiana

RESEARCH ASSISTANT FOR PROFESSOR DOUGLAS THAIN

Jan. 2018 - Present

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

South Bend Code School

South Bend, Indiana

FRONTEND WEB DEVELOPER

Aug. 2017 - Present

- Web Developer consulting with local companies through South Bend Code School.
- Atlas3D - Main developer on Vue.js 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

Jun. 2015 - Jul. 2015

- 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

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

MISCELLANEOUS

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

Extracurricular Activity

Linux User Group of Notre Dame

Notre Dame, Indiana

MEMBER & VICE PRESIDENT

Aug. 2016 - Present

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

Honors & Awards — UNIVERSITY OF NOTRE DAME

2016 - Present	**Suzanne and Walter Scott Scholars Program**, Awarded to students in the top 3% of the admitted class "who have demonstrated outstanding academic achievement [...] and who are committed to service in their communities".
2016 - Present	**Dean's List**, Top 30% GPA in College of Engineering.