

# Timothy R. Burchfield

COMPUTER SCIENCE STUDENT · NOTRE DAME

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## Education

### University of Notre Dame

NOTRE DAME, INDIANA

- Current GPA: 3.90

*Computer Science and  
Cybersecurity Concentration*

*Aug. 2016 - Exp. May 2019*

## Experience

### Professor Douglas Thain

BASEKERNEL RESEARCH

- <https://github.com/dthain/basekernel> - Contributor for basekernel, an minimal kernel based on the idea of hierarchical containment.

*Notre Dame, Indiana*

*Jan. 2018 - Present*

### South Bend Code School

FRONTEND WEB DEVELOPER

- Web Developer consulting with local companies through South Bend Code School.
- <https://portal.atlas3d.xyz> - Main developer on Vue.js single page app which interfaces with GraphQL database.
- **Notre Dame Benefits page** - Assistant developer on internal pug html static site. Used to calculate benefits for prospective employees.

*South Bend, Indiana*

*Aug. 2017 - Present*

### Fermilab

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.

*Batavia, Illinois*

*Jun. 2015 - Jul. 2015*

## 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

MEMBER & VICE PRESIDENT

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

*Notre Dame, Indiana*

*Aug. 2016 - Present*

## 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.