Timothy R. Burchfield

COMPUTER SCIENCE STUDENT · NOTRE DAME

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Education

University of Notre Dame

Computer Science and Cybersecurity Concentration

Aug. 2016 - Exp. May 2019

Notre Dame, Indiana
• Current GPA: 3.90

Experience _____

Professor Douglas Thain

Notre Dame, Indiana

BASEKERNEL RESEARCH

Jan. 2018 - Present

• https://github.com/dthain/basekernel - 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.
- https://portal.atlas3d.xyz Main developer on Vue.js single page app which interfaces with GraphQL database. Allows users to upload 3D models and optimize them for minimum build time, material consumption, or other factors.
- Notre Dame Benefits page Assistant developer on internal pug html static site. Used to calculate benefits for prospective employees.

Fermilab Batavia, Illinois

DATA ANALYSIS & VISUALIZATION INTERN

Jun. 2015 - Jul. 2015

- Improved the data reduction pipeline for a new type of telescope camera.
- Automated various data visualization techniques in Python.
- Collaborated with a team of about 20 on the camera's data processing, error analysis modules, and documentation.

Skills_

LANGUAGES

• Python, C, C++, MATLAB, Verilog, JavaScript.

Tools

· Linux, Git, Bash, VueJS, GraphQL.

MISCELLANEOUS

- Systems programming, functional programming, multiprocessing, memory management, system calls, networking.
- Open source contribution Borg (>2900 stars on github).

Extracurricular Activity _____

Linux User Group of Notre Dame

Notre Dame, Indiana

Aug. 2016 - Present

- MEMBER & VICE PRESIDENT

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

Honors & Awards.

University of Notre Dame

2016 -	Suzanne and Walter Scott Scholars Program , Awarded to students in the top 3% of the admitted
Present	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.