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Education

University of Notre Dame

Computer Science

Aug. 2016 - Exp. May 2019

NOTRE DAME, INDIANA · Current GPA: 3.90

Experience.

Basekernel Notre Dame, Indiana

PROFESSOR DOUGLAS THAIN

Jan. 2018 - Present

Aug. 2017 - Present

- Contributor for basekernel, an minimal kernel based on the idea of hierarchical containment.
- Designed user-level shell, and implemented system calls.
- Basekernel

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 Jun. 2015 - Jul. 2015

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

• Python, C, C++, Javascript, MATLAB, Verilog, Scheme.

- Linux, Git, Bash, ŁTFX, HTML/CSS, Apache, Nginx, VueJS, GraphQL, Firebase, Pug/Jade.
- Systems programming, functional programming, multiprocessing.

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_

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

Extracurricular Activity

Linux User Group of Notre Dame

Notre Dame, Indiana

MEMBER & VICE PRESIDENT

· Organizes talks from members, faculty and guests.

Plans projects and events.

Aug. 2016 - Present

TIMOTHY R. BURCHFIELD · RÉSUMÉ FEBRUARY 3, 2018