

SAINT MARY'S COLLEGE · 2018

University of Notre Dame · 2019

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University of Notre Dame

B.S. IN COMPUTER SCIENCE

| May 2015 - May 2019

GPA: 3.89/4.0

Saint Mary's College

Notre Dame, IN

Aug. 2014 - May. 2018

GPA: 3.90/4.0

Work Experience _

Growing Graphs with Synchronous Hyperedge Replacement Graph Grammars

Notre Dame, IN

RESEARCH ASSISTANT TWENINGER/PSHRG

January 2018 - Present

- Parsed temporal graph data to find grammar for graph's growth
- · Ongoing, results pending

Exploration of Numerical Precision in Deep Neural Networks

UCLA, California

RESEARCH IN INDUSTRIAL PROJECTS FOR STUDENTS PARTICIPANT JIHANGJIE/AMD-RIPS2017 🖫

June 2017 - August 2017

- Studied resiliency of neural networks when exposed to lower numerical precision
- Analyzed effects of mixed and arbitrary precision
- Conducted through Instutute of Pure and Applied Mathematics, sponsored by AMD

Computer-Assisted Image Analysis for Paper Analytical Devices (PADs)

Saint Mary's College

RESEARCH ASSISTANT

May 2016 - December 2016

- Created image analysis software to detect semi-quantitative colorimetric chemical tests
- Won Outstanding Poster Award at the 2017 Joint Math Meetings

Projects _

 KittyKatBot
 simple Python IRC chatbot
 kittykatbot ☐

 HoC Blog
 blog for History of Computing class
 hoc_blog ☐

 Neural Networks
 senior comprehensive project
 senior_comp ☐

 GoT Web?
 GoT webservice that offers character/book information
 got_webservice ☐

 Dotfiles
 configuration files for i3wm, polybar, vim, tmux, bash, and other useful scripts
 dotfiles ☐

 Spidey
 simple forking webserver in C
 private project

Honors and Awards _

Jan. 2017 **Meritorious Winner**, Mathematical Contest in Modeling

Jan. 2017 **Outstanding Poster Award**, MAA Undergraduate Poster Session

Joint Math Meetings

Dean's List, All Semesters

Saint Mary's College

Clubs

President Math && Computer Science Club, Saint Mary's College **Web Administrator** Society of Women Engineers, Saint Mary's College

Treasurer Pi Mu Epsilon: Indiana Epsilon Chapter, Saint Mary's College

Member Linux User's Group, University of Notre Dame

Skills _

Proficient Python, C, C++, Bash, △TEX

Basic Knowledge HTML/CSS, Javascript, Ruby

Coursework

Linear Algebra Fall 2013

Calculus III Fall 2014

Computer Programming (Python) Fall 2014

Foundations of Higher Mathematics Spring 2015

> **Intro to Differential Equations** Spring 2015 **Electronic Communications** Spring 2015

> > **Database Systems** Fall 2015

Numerical Analysis Spring 2016

Probability Spring 2016

Statistics Fall 2016

Fundamentals of Computing Fall 2016

> **Logic Design** Spring 2017

Data Structures Spring 2017

Systems Programming Spring 2017

Discrete Mathematics Spring 2017

Simulation: Theory and Application Fall 2017

> **Computer Architecture** Fall 2017

Programming Paradigms Fall 2017

Programming Challenges Fall 2017

> **Theory of Computing** Spring 2018

Operating Systems Principles Spring 2018

> A History of Computing Spring 2018