

SAINT MARY'S COLLEGE · 2018

University of Notre Dame · 2019

51686 Terri Brooke Dr. Granger, IN, 46530

© (574) 309-0472 | Scvajiac@nd.edu | Awww3.nd.edu/~cvajiac | Catvajiac | Catv

Education: 4-1 Dual Degree

University of Notre Dame

Notre Dame, IN

B.S. IN COMPUTER SCIENCE

Aug. 2015 - May. 2019

GPA: 3.89/4.0

Saint Mary's College

Notre Dame, IN

B.S. IN COMPUTING AND APPLIED MATHEMATICS

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

of webservice that offers character/book information

dotfiles 🖬

Dotfiles configuration files for i3wm, polybar, vim, tmux, bash, and useful scripts **Spidey** simple forking webserver in C

private project

Honors and Awards

Jan. 2017 Meritorious Winner, Mathematical Contest in Modeling

COMAP

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, MEX

Basic Knowledge HTML/CSS, Javascript, Ruby