

UNIVERSITY OF NOTRE DAME · 2019

51686 Terri Brooke Dr. Granger, IN, 46530

□ (574) 309-0472 | Scatyajiac@nd.edu | Marwww3.nd.edu/~cvajiac | Catyajiac |

Education: 4-1 Dual Degree _

University of Notre Dame

Notre Dame, IN **B.S. IN COMPUTER SCIENCE** Aug. 2015 - May. 2019

GPA: 3.90/4.0

Saint Mary's College Notre Dame, IN

B.S. IN COMPUTING AND APPLIED MATHEMATICS

GPA: 3.91/4.0

Aug. 2014 - May. 2018

Research Experience _

Growing Graphs with Synchronous Hyperedge Replacement Graph Grammars

Notre Dame, IN January 2018 — Present

RESEARCH ASSISTANT TWENINGER/PSHRG

• Parsed temporal graph data to find a CFG for its growth • Presented at the 11th Internation Conference on Graph Transformations (Toulouse, FR)

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

Industry Experience _

Business Support Solutions Team, IBM Cloud

IBM, Foster City, CA

SOFTWARE DEVELOPER

June 2018 - August 2018

Wrote tests and apis in node is for account management

Projects ____

kittykatbot **KittyKatBot** modular Python IRC chatbot

Neural Networks senior thesis, implemented gradient descent in Python from scratch senior_comp

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

Honors and Awards.

May 2018 Donald E. Miller Award, Mathematics and Computer Science Department Saint Mary's College

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

Vice-President Linux User's Group, University of Notre Dame

Web Administrator Society of Women Engineers, Saint Mary's College

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