Graese

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"Talent is a pursued interest. Anything that you're willing to practice, you can do." –Bob Ross

Summary.

1st year PhD student excited to explore the opportunities of an industry role. Experienced in learning quickly and getting the job done. Excited to translate skills gained in doing research on machine learning and computer vision to developing innovative solutions for complex problems.

Education ____

University of Notre Dame

1ST YEAR PHD STUDENT

- Teaching Assistant: Artificial Intelligence
- Course work: Graduate Operating Systems, Graduate Analysis of Algorithms, Data Science, Biometrics
- GPA: 3.91

University of Colorado Colorado Springs

BACHELOR OF INNOVATION IN COMPUTER SCIENCE

- Cross Discipline Core: Business Administration
- GPA: 3.68

Professional Experience_

Computer Vision Research Lab

GRADUATE RESEARCH ASSISTANT

- · Developing software for mapping images extracted from a scientific paper to text that references the extracted images
- Researching novel ways to improve deep learning model performance on open set problems Developing a new loss function for deep neural networks
 - Designing thorough experimentation to test performance of the new approach on accepted performance metrics
- Reviewer for IEEE Winter Conference on Applications of Computer Vision 2019

Vision and Security Technology Lab

UNDERGRADUATE RESEARCH ASSISTANT

- · Adapted use of dropout, a neural network layer, to test the resulting performance of an open set classifier on adversarial inputs
- Provided technical writing support to graduate students preparing papers for submission to computer science conferences •

NSF Research Experience for Undergraduates

RESEARCH INTERN

- Developed software to run experiments that tested the natural defenses of deep neural networks against adversarial inputs
- Prepared technical reports detailing the approach, experiments, and presenting the analysis of the results
- Resulted in a publication in IEEE International Conference on Machine Learning Applications 2016 (see publications)

Active Youth Network, LLC

TECHNICAL INTERN

- Built iOS and Android mobile apps, using the SeattleClouds application framework
- Published over 50 mobile apps to Apple App Store & Google Play
- Enhanced web based user interfaces and functionality

Publications ____

Assessing Threat of Adversarial Examples Against Deep Neural Networks

ABIGAIL GRAESE, ANDRAS ROSZA, AND TERRANCE E. BOULT

 IEEE International Conference on Machine Learning Applications (ICMLA) https://arxiv.org/pdf/1610.04256.pdf

The Bachelor of Innovation: A Student's Perspective

ABIGAIL GRAESE, DANIEL LEMMOND, AND TERRANCE E. BOULT

 ACIL International Conference On Innovation and Entrepreneurship (ICIE) https://books.google.com/books?isbn=1911218719 p. 151

Technical Skills.

Languages Python, Java, Shell Scripting, C#, C, Ruby, HTML, LaTeX Machine Learning Frameworks Tensorflow, Keras, Caffe

Aug. 2014 - May 2018

Colorado Springs, CO

South Bend, IN

May 2018 - present

May 2018 - present

Colorado Springs, CO

Aug. 2016 - May 2018

Colorado Springs, CO

May 2016 - Aug. 2016

Englewood, CO

Dec. 2014 - Dec. 2015

Anaheim, CA

2016

Washington D.C.

2018

HD STUDENT · SOMETHING ELSE

South Bend, IN