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*PhD candidate in computer science seeking to improve the world through computer vision and deep learning.*

## Overview

- Research experience in applying new deep learning methods to classic computer vision algorithms
- A wide variety of skills and programming languages
- Experience working on complex systems with dynamic teams

## Education

- 2023  
*expected*      **Brigham Young University**, College of Physical and Mathematical Sciences - Provo, UT  
*PhD in Computer Science*
- Dissertation Topics: computer vision, deep learning
  - Coursework: advanced graphics, computational creativity, artificial intelligence
- 2017      **Brigham Young University**, College of Physical and Mathematical Sciences - Provo, UT  
*BS in Computer Science, Golden Key International Honors Society*
- GPA: 3.85

## Skills and Achievements

Programming Languages	Python, C/C++, Java, GLSL, MSL, Swift, HTML, CSS, Javascript, PHP, SQL, Ruby
Frameworks and Libraries	PyTorch, Tensorflow, OpenCV, JQuery, AngularJS, Bootstrap4, WebGL, OpenGL, Selenium, SQLite, MySQL, Ruby on Rails
Software and Tools	MS Office, Latex, Photoshop, Adobe Illustrator, Blender, Maya
Achievements	Won first place in the 2019 Global Legal Hackathon hosted at Brigham Young University Law School

## Work & Research

- 2019-present      **Techcyte, Inc** - Lindon, UT  
*Applied Data Science Intern*
- Developed methods for detecting regions of interest in digital microscopy slides using OpenCV in C++
  - Implemented a blur metric for detecting the quality of a microscope slide
  - Work with region mosaic stitching in Python
- 2018-present      **Laboratory of Dr. Bryan Morse**, BYU Department of Computer Science - Provo, UT  
*Research Assistant*
- Researched the connection between classic computer vision algorithms and modern deep learning
  - Utilized deep learning for the tuning of graph cut segmentation
  - Acted as teaching assistant for an upper division computer vision course
- 2015-2017      **Morinda, Inc.** - American Fork, UT  
*Web and Software Quality Assurance Specialist*
- Worked together with 3 other teammates to maintain the quality of the company's website and internal software system
  - Developed a multi-threaded automation program using Selenium webdriver in Java utilizing Swing for intuitive graphical user interface controls, improving efficiency on regress testing by up to 300%
  - Provided technical support on the website for company's Independent Product Consultants through phone calls and web chats

## Other Talents and Hobbies

- Fluent in the Cambodian Language
- Achieved eagle scout award
- Enjoys running, hiking, and tennis