

ANDREW KING

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EDUCATION

UNIVERSITY OF GEORGIA - 3.93/4.0 GPA

Artificial Intelligence - M.S.

Athens, GA

Expected May 2018

Completing a master's degree in Artificial Intelligence. Thesis explores fully convolutional deep learning architectures for semantic segmentation. Completed coursework on a variety of topics including scalable machine learning, computer vision, advanced data analytics, and biomedical image analysis.

SOUTHERN VIRGINIA UNIVERSITY - 3.87/4.0 GPA

Computer Science, Business Management - B.A.

Buena Vista, VA

June 2016

Completed a bachelor's degree with majors in both computer science and business management. Maintained a computer science major GPA of 4.0. Served as president and founder of the Southern Virginia University Robotics Club and as the chair of the Southern Virginia University ACM student chapter.

EXPERIENCE

DEEP LEARNING RESEARCH ASSISTANT

University of Georgia - Visual and Parallel Computing Laboratory

Athens, GA

May 2017 - Present

- Conducting research as student lead on a deep learning project in conjunction with the Department of Marine Sciences. Exploring fully convolutional semantic segmentation architectures using underwater survey images from the Florida Keys for the purpose of mapping and tracking the coral reef.
- Research led to a top-1 classification accuracy of 88%, outperforming all previous models for this task.

LEAD PROGRAMMER

University of Georgia - Virtual Environments Laboratory

Athens, GA

Aug 2016 - Present

- Using Unity and computer vision techniques such as photogrammetry to develop virtual environments for research projects in medicine, advertising, and psychology.

MACHINE LEARNING AND COMPUTER VISION INTERN

Brew Counts

Athens, GA

Summer 2017

- Developed in-lab yeast analysis computer vision software to automatically determine and track yeast health metrics.
- Organized ground truth data collection and achieved 97% cell count accuracy and 95% health classification accuracy.

LEAD WEB DEVELOPER

Southern Virginia University

Buena Vista, VA

July 2013 - Aug 2016

- Developed a new, fully-responsive website for the university in an open-source content management system.
- Managed the design and implementation of the site, substantially decreasing development costs and saving the university thousands in yearly licensing and maintenance fees.

PERSONAL PROJECT HIGHLIGHTS

Deep Segments – developed a tool for generating semantic segmentation ground truth images to be used in deep learning models. The tool provides a fast method for researchers by leveraging unsupervised clustering of an oversegmented image.

Scopi – created a stereoscopic camera application for Android. Users can take two perspective-offset photos that are automatically cropped, stitched, and registered (aligned) using OpenCV (C++ interface) to create a stereoscopic photograph.

PROFICIENCIES

Python	Keras & Pytorch
Java	OpenCV
C#	Scikit-image
C++	Scikit-learn
JavaScript	Android