ANDREW KING

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EXPERIENCE

SENIOR MACHINE LEARNING ENGINEER
NextGen Federal

Bellingham, WA
April 2021 - Present

- Leading ML efforts across Air Force Weather contracts including Global Synthetic Weather Radar (GSWR), Commercial Weather Data Pilot for GSWR Lightning, and Forecasting Contrail Formation.

- Leading research, development, and deployment of machine learning models across a variety of deep learning model architectures including CNNs and FCNs operating on multiple data modalities.

MACHINE LEARNING RESEARCH ENGINEER
Leidos

Reston, VA
Oct 2019 - April 2021

- Acting as machine learning algorithm lead for a project in the geospatial intelligence domain. Utilizing a variety of deep learning techniques such as sparse convolutional neural networks and LSTMs.

- Acting as principal investigator for a machine learning research project in the radio frequency (RF) domain. Exploring the use of region-based convolutional neural networks for signal detection and estimation.

- Awarded the Leidos Innovation Center Award for Technical Excellence in the first quarter of 2020.

MACHINE LEARNING DEVELOPER
Ellucian, Applied Research

Reston, VA
May 2018 - Oct 2019

- Led machine learning research at Ellucian, delivering proofs-of-concept and deploying product enhancements in the higher education administrative space.

- Collaborated with architects and developers to define, deploy, and refine the cloud services-based machine learning architecture at Ellucian.

EDUCATION

UNIVERSITY OF GEORGIA - 3.94/4.0 GPA
Artificial Intelligence - M.S.

Athens, GA
May 2018

Attained a master's degree in Artificial Intelligence. Thesis explored fully convolutional deep learning architectures for semantic segmentation of image data. Coursework included a variety of topics including scalable machine learning, computer vision, deep learning, 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.

ACADEMIC PUBLICATIONS

A Comparison of Deep Learning Methods for Semantic Segmentation of Coral Reef Survey Images
Andrew King, Suchendra Bhandarkar, Brian Hopkinson
Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2018

Deep Learning for Semantic Segmentation of Coral Reef Images Using Multi-View Information
Andrew King, Suchendra Bhandarkar, Brian Hopkinson
Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2019

Automated Classification of Three-Dimensional Reconstructions of Coral Reefs using CNNs
Brian Hopkinson, Andrew King, Daniel Owen, et al.
PLoS ONE 15(3): e0230671, 2020

PROFICIENCIES

Python	PyTorch & Keras
Java	Scikit-learn
C#	Pandas & Dask
C++	OpenCV
AWS	Numpy & SciPy