

# ANDREW KING

Phone: (206) 925 3209 | Email: mail@AndrewKing.ai | TS/SCI Clearance  
Website: www.AndrewKing.ai | GitHub: AndrewCKing | LinkedIn: AndrewKingAI

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## EXPERIENCE

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### SENIOR MACHINE LEARNING ENGINEER

*NextGen Federal*

Remote

April 2021 - Present

- Advancing AI research in geospatial intelligence, applying machine learning to satellite imagery and multi-modal data for defense and aerospace applications.
- Driving research, development, and deployment of advanced ML models, leveraging architectures such as CNNs, FCNs, GANs, transformers, and diffusion models.
- Applying models to diverse data modalities, with a particular emphasis on computer vision and natural language processing, to achieve superior results.

### MACHINE LEARNING RESEARCH ENGINEER

*Leidos*

Reston, VA

Oct 2019 - April 2021

- Acted as machine learning algorithm lead for a project in the geospatial intelligence domain. Utilized a variety of deep learning techniques such as sparse convolutional neural networks and LSTMs.
- Acted as principal investigator for a machine learning research project in the radio frequency (RF) domain. Explored 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

- Spearheaded machine learning research and product enhancements in the higher education administrative space while also working in close collaboration with architects and developers to establish a cloud-based ML infrastructure

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## EDUCATION

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### 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 natural language processing, 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.

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## ACADEMIC PUBLICATIONS

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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

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

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## PROFICIENCIES

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Python    PyTorch & Tensorflow

Java        OpenCV

C#          Pandas & Dask

C++        HuggingFace

AWS        Numpy & SciPy