

## Professional Experience

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**Sr. Machine Learning Engineer** at [StudioLAB at Walt Disney Studios](#) in Burbank, CA Sep. 2021 - Present

- ▷ Lead technical development of ML-based pilot projects for use by creatives and operators in several stages of film production & delivery pipelines
- ▷ Diagnose & solve complex technical challenges with teammates on ML projects: performance metric development, algorithm optimization, and debugging
- ▷ Institute various engineering best-practices for my team: automated linting, testing, containerization, etc.
- ▷ Champion ethical development of AI systems and datasets, in line with [Disney's broader D&I goals](#)

**Machine Learning Engineer** at [StudioLAB at Walt Disney Studios](#) in Burbank, CA Nov. 2020 - Sep. 2021

- ▷ Developed innovative and valuable neural style transfer tools for creatives working in content production and post-production pipelines
- ▷ Worked with diverse stakeholders such as artists, PMs, and other engineers to build maintainable tools for technical and non-technical users

**Research Assistant** at [Rensselaer Polytechnic Institute](#) in Troy, NY Jan. 2020 - Aug. 2020

- ▷ Formalized and solved the computer-assisted human annotation problem for data labeling tasks
- ▷ Proposed novel metrics for human annotation effort and derived estimates using easily-computed proxies

**Computer Vision Research Intern** at [Trash \(acquired by VSCO\)](#) in Brooklyn, NY May 2019 - Aug. 2019

- ▷ Invented novel method for action modeling in images and videos by emulating language
- ▷ Produced semantically-significant action embeddings similarly to WordNet for retrieval and recommendation

**Computer Vision Research Intern** at [Kitware](#) in Clifton Park, NY May 2018 - Aug. 2018

- ▷ Implemented deep learning algorithm using PyTorch and other open-source machine learning libraries
- ▷ Adapted the YOLO object detector to improve human annotation error in satellite images

**Software Development Engineer Intern** at [98point6](#) in Seattle, WA June 2017 - Aug. 2017

- ▷ Learned TensorFlow, Keras, and Scikit-Learn to develop image-based skin condition diagnosis tool for small tele-health startup
- ▷ Balanced diagnostic accuracy, usability, and scalability to deliver proof-of-concept and presented work to PMs, doctors, and executives

**Research Assistant** at [Seattle University](#) in Seattle, WA Sept. 2016 - June 2017

- ▷ Built background segmentation and image classification pipeline for 94% accuracy
- ▷ Published results in the 2017 [IEEE Global Conference on Signal and Information Processing](#)

**Research Assistant** at [Florida Institute of Technology](#) in Melbourne, FL May 2016 - July 2016

- ▷ Selected for competitive [NSF REU](#) to classify time-domain signals and developed novel feature extraction technique.
- ▷ Published in the 2017 [International work-conference on Time-Series Analysis](#) and selected for the 2017 edition of Springer's [Contributions to Statistics](#)

## Education

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**MS in Computer Science** at [Rensselaer Polytechnic Institute](#) in Troy, NY Aug. 2017 - Aug. 2020

**BS in Electrical Engineering** at [Seattle University](#) in Seattle, WA Sept. 2014 - June. 2017

## Select Skills & Qualifications

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- ▷ Python (advanced)
- ▷ Deep learning R&D
- ▷ Project management
- ▷ C/C++ (novice)
- ▷ Computational photography
- ▷ Technical communication
- ▷ BaSH & Unix (intermediate)
- ▷ Image processing
- ▷ AI ethics research