

Jeremy Rico

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Summary: Python developer specializing in artificial intelligence and machine learning with several years experience on projects relating to computer vision, speech recognition, and more.

Work Experience

AI Design Engineer

San Jose, CA

Uniquify, Inc. (*Note: project specifics are NDA*)

Sep 2021 – Present

- Constructed concise, maintainable Python code in a Linux environment to apply deep learning algorithms to a multitude of computer vision, speech recognition, and NLP related projects
- Developed novel neural network architectures in TensorFlow and PyTorch by manipulating network structures, optimizers, loss functions, and other specifications
- Utilized data augmentation techniques to create more robust datasets and improve model results
- Applied various supervised and unsupervised machine learning techniques to relevant projects
- Championed new projects/features and managed teams to ensure they were implemented efficiently
- Collaborated with teams members in different working environments (on-site, hybrid, and remote) using tools such as Git for version control and code review

Artificial Intelligence Intern

San Jose, CA

Uniquify, Inc.

Oct 2020 – Sep 2021

- Created clean Python code for neural network training and inference on computer vision tasks such as object detection, classification, segmentation, and pose estimation
- Analyzed the results from training models to better understand and improve them
- Debugged, optimized, and organized code from engineers to meet company standards
- Worked with and managed large datasets consisting of images, videos, and audio samples
- Conducted research into well-known models in order to reverse engineer their methods

Technical Skills

- Languages: Python, C++, HTML, C, JavaScript, MatLab, Java, LISP
- Frameworks: TensorFlow, PyTorch, Sci-kit learn, Git, cuDNN, CUDA
- Operating Systems: Linux, Windows, UNIX

Education

California State University, Fullerton

Dec 2020

M.S., Computer Science: Machine Learning and AI (GPA: 3.66)

University of California, Irvine

Jun 2017

B.S., Earth System Science (GPA: 3.82)

Projects

Trash Object Classification (Python & Tensorflow)

Dec 2020

<https://github.com/jjrico/Trash-Image-Classification>

- Created a neural network in Tensorflow to classify images of different types of trash into six classes
- Mined for data and performed various data augmentation techniques to improve the dataset
- Experimented with neural network specifications to optimize accuracy while avoiding overfitting
- Outcome: achieved ~98% test accuracy when attempting to classify new images