Kevin Le

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EDUCATION

University of California, San Diego   2013 - present
M.S. Electrical Engineering, specialization in Machine Learning & Data Science   GPA: 3.30
B.S. Electrical Engineering, specialization in Machine Learning & Controls   GPA: 3.11

ENGINEERING RESEARCH & WORK EXPERIENCE

Application Developer   July 2018 – October 2018
Google | Sunnyvale, CA 94089
• Developed machine learning-based repair system for Google's machine learning hardware, outperforming their manual system by 20% with a random forest model
• Reduced the average number of repair attempts by ~27% with model predictions, thereby saving over 2000 hours for the average monthly build.

Application Programmer   June 2017 – June 2018
Jaffe Laboratory for Underwater Imaging Systems | La Jolla, CA 92122
• Designed data augmentation methodology to improve image classification performance for large datasets of over 100s of millions of images. Reduced error rate and training size by nearly 20% and 60% respectively
• Trained image/size detection model to estimate an endangered species population density in the Caribbean, achieving a 12% error rate

Graduate Research Assistant | Dr. Nuno Vasconcelos   January 2017 – June 2018
UCSD Statistical Visual Computing Lab (SVCL) | La Jolla, CA 92122
• Built a dual plankton pose predictor and classifier model with an improved recognition by 10% to study dataset optimization within the pose manifold
• Spearheaded data sampling and gathering strategy from underwater camera systems, search engines, and Amazon MTurk, collecting over 80,000 images

Manufacturing Test Engineer Intern   June 2016 – September 2016
Unigen | Fremont, CA 95035
• Developed test software in Python for SSD and Flash products to manage testing operations and deliver automated quantitative testing reports. Software improved product test coverage, yield, and lead time

PROJECTS

Classification on Biological Images   January 2017 – March 2017
Senior Capstone Design Project | (Python, Caffe, Matplotlib, OpenCV)
Trained convolutional neural networks to automatically classify plankton specimens, which achieved over 90% accuracy. Accomplishments fostered a strong partnership with non-expert clients and led to ongoing research

SKILLS

Programming Languages: Python (> 3yr), MATLAB (> 2yr), GiT (> 2yr), Java (< 6m), JavaScript (< 6m), SQL (< 6m)
Tools/Software: TensorFlow, Caffe, PyTorch, SciKit-Learn, OpenCV, Pandas, Matplotlib, LaTex, Amazon MTurk
OS: Linux, Windows(XP, 7, 8, 10), Mac OS X

PUBLICATIONS

Conferences

Exploiting laboratory images to improve automated classification performance   February 2018
on the In Situ plankton image data. E Orenstein and K Le. Ocean Sciences Meeting, 2018.

Classification with densely sampled poses. P Morgado and K Le.   Expected June 2019
Conference on Computer Vision & Pattern Recognition, 2019. In Preparation