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Brandon Wolfson

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EDUCATION

University of California, Los Angeles, Los Angeles, CA — Sept. 2016 – June 2020
BS, Mathematics of Computation

- GPA: 3.41 / 4.0
- **Relevant Coursework:** Introduction to Machine Learning, Data Structures and Algorithms, Software Construction Lab, Probability Theory, Introduction to Mathematical Statistics.
- **Honors/Awards:** Northrop Grumman Scholarship for Employee's Children. Dean's Honor List.

University of St Andrews, St Andrews, Scotland — Sept. 2018 – Dec. 2018

- **Relevant Coursework:** Databases.

Udacity Deep Learning Nanodegree — July 2018 – Nov. 2018

- Applied deep learning to natural language processing, computer vision, image and text generation, time series prediction, and reinforcement learning through coursework and projects.

SKILLS

- Advanced: C++, Python; Intermediate: Keras, TensorFlow, NumPy, Linux, Git; Beginner: Pandas, scikit-learn, SQL, AWS, CUDA.

EMPLOYMENT

Centauri, Kihei, HI — July 2020 – Present
Software Engineer — https://www.centauricorp.com

Centauri, Kihei, HI — July 2019 – Nov 2019
Machine Learning Intern — https://www.centauricorp.com

- Developed company's best object detection algorithm, as measured by precision and recall, by using Python, Keras, and TensorFlow and building off the established YOLO v3 CNN architecture.
- Refactored data preparation script to be 12 times faster, by utilizing TensorFlow, NumPy, and a GPU.
- Classified simulated satellite orbits with 99% accuracy by applying random forests with scikit-learn and Pandas.
- Hired for full-time position after exceeding expectations as an intern.

TECHNICAL PROJECTS

Modeling COVID-19 Prevalence in US Prisons (UCLA) https://github.com/bwolfson97/UCLA-Networks-Final-Project

- Modeled effects of various interventions on spread of COVID-19 in US prisons by using Python to run an SIR model on a prison network.

Tetris (UCLA) https://github.com/bwolfson97/Tetris

- Programmed Tetris game in C++, receiving an A+, by applying large project object-oriented programming skills.

Dog Breed Identifier (Udacity) https://github.com/bwolfson97/Dog-Identifier

- Identified dog breeds in images with 85% accuracy by using Python and Keras to build a convolutional neural network (CNN) trained on over 8,000 dog images.

Human Face Generator (Udacity) https://github.com/bwolfson97/Face-Generator

- Generated images of human faces by implementing a deep convolutional generative adversarial network (DCGAN) using Python and TensorFlow and training on over 200,000 celebrity faces.

LEADERSHIP EXPERIENCE

Boy Scouts of America, Torrance, CA — May 2008 – Dec. 2015
Eagle Scout Rank Recipient

- Led team of 19 people, in over 180 total volunteer work hours, in construction of information kiosk at Lago Seco Community Gardens, used by over 125 people.
- Attained $442 of funding by presenting project plan to Home Depot and receiving offer to fund whole project.
- Identified upgrades to include in new kiosk design by meeting with City of Torrance officials; Drafted new kiosk to include slatted, rain-resistant table for gardeners to trade produce, new plexiglass locking system for city officials to post announcements, and blackboard to allow gardeners to communicate with each other.