Jun Hwee Oh

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EDUCATION

University of California, San Diego – B.S. Data Science.

WORK EXPERIENCE

Google   June 2022 - September 2022
Incoming SWE Intern | Python, Tensorflow
- Applied perception team at Google Assistant.

Hume AI   January 2022 - June 2022
ML Intern | Python, Pytorch, Google Cloud
- Implementing language modeling pipeline consisting of Wav2Vec2, T5 Transformers, and find-tuned BERT for emotion classification.
- Implemented facial identification for Hume's facial expression model by comparing output features from CNN.

Google   September 2021 - December 2021
SWE Intern | Python, Tensorflow, Numpy, Pandas, C++, SQL
- Explored and productionized NLP embedding layers such as TF-IDF weighted GloVe to calculate how relevant a Google Maps review is to the place - boosting personalization ML models.

Spatial   June 2021 - September 2021
SWE Intern | C#, Unity, React.js, Typescript, Tensorflow, Python
- Shipped major Spatial 5.0/6.0 features such as Participant List, New Subdock, Moderation System for blocking/reporting.
- Utilized pre-trained holistic model + logistic regression to classify facial and body pose for webGL avatars.

Gravity Industries   November 2018 – June 2020
SWE Lead | C++, Unreal, WebRTC, GStreamer, Python, Javascript, HTML
- Developed a virtual reality simulation of jetsuit for pilot training utilizing Unity physics engine.
- Awarded $100k MegaGrant to successfully prototype an augmented reality helmet that displays real-time jetsuit telemetry and allows live streaming to web/mobile via RTC and Janus.

Virtualitics   July 2019 - August 2019
Data Science Tutor | Python, Jupyter, Scikit-learn, Seaborn
- Lead students through a machine learning project start to finish from data exploratory analysis to observe correlations to implementing classical ML models including logistic regression and decision trees.

NASA   June 2019 - August 2019
SWE Intern | C#, Unity, Javascript
- Created new 3D hand controls/gestures for NASA's holographic CAD software such as using two hands to scale and rotate.
- Developed AR slide functionalities - save, update, and delete CAD models' current state - allowing NASA scientists to replicate a PowerPoint experience for holographic models in 3D space.

RELEVANT COURSES

MATH 18 – Linear Algebra

DSC 102 - Systems for Scalable Analytics

DSC 140 - Probabilistic Modeling and ML

DSC 190 - Data Mining

CSE 151B – Deep Learning
Student | Python, Pytorch, Numpy
- Wrote a neural network from scratch to classify handwritten digits. Architectured neural networks ranging from CNNs to LSTM and RNNs to classify Fashion-MNIST, Caltech-UCSD Birds, and image captioning for COCO dataset.

CSE 152A – Computer Vision
Student | Python, Pytorch, Numpy, OpenCV
- Implemented Eight-Point Algorithm to calculate correspondence in images and Lucas-Kanade to detect optical flow in an image. Architectured PointNet to classify large 3D points.