Daniel Ho

https://daniel-ho.github.io/

EDUCATION

•	University of California, Berkeley	E
	M.S., Electrical Engineering & Computer Science (Computer Vision Focus); GPA: 4.00	Aug 2019
•	University of California, Berkeley	E
	B.S., Electrical Engineering & Computer Science; GPA: 3.94	Aug 2015

INDUSTRY EXPERIENCE

Facebook | Stories Creation Core Team

Software Engineer Intern

- Leveraged existing OpenGL infrastructure to extend swipeable filters used in Facebook Stories for iOS devices with post capture image enhancing filters
- Refactored video trimming and tag tools' infrastructures to encourage code modularity and improve maintainability and extandability of codebase
- Implemented redesign of doodle tool UI to improve user experience and tool usage

Amazon Lab126 | Alexa Local Search Platform Team

- Software Development Engineer Intern
 - Designed and implemented a service that makes calls to NoSQL database to provide internal Alexa clients with requested data and performs query parsing to identify search keywords
 - Performed load testing to analyze functionality and latency of new system compared to existing system

RESEARCH

RISE Lab

- Graduate Student Researcher
 - NBDT: Neural-Backed Decision Trees constructed decision tree-based classifiers using neural network weights to improve interpretability of neural networks while maintaining state-of-the-art accuracy
 - SegNBDT: Visual Decision Rules for Segmentation extended NBDT method to semantic segmentation and modified black-box saliency methods to improve visually-grounded interpretability of models

ADEPT Lab

- Undergraduate Researcher
 - Efficient Semantic Segmentation by Uncertainty-Based Downsampling investigated entropy-based, non-uniform downsampling method to improve accuracy and reduce computation costs

RISE Lab

- Undergraduate Researcher
 - High Accuracy Approximation of Secure Multiparty Neural Network Training (AISys 2017) explored linear approximations of common activation functions to improve accuracy of convolutional and recurrent neural networks in the context of efficient encryption

PROJECTS

• EthTracker (daniel-ho.github.io/EthTracker)

• Dynamically updated web page data and visualizations made with D3. is in real-time using a combination of socket.io library and HTML requests from CryptoCompare API

SKILLS

- Languages: Python, Java, SQL, Obj-C
- Libraries/Frameworks: PyTorch, Tensorflow, scikit-learn, NumPy, Matplotlib

Email : danielho@berkeley.edu Mobile : (626) 277-7690

> Berkeley, CA 9 – May 2020 Berkeley, CA 5 – May 2019

Menlo Park. CA May 2019 - Aug 2019

Berkeley, CA Aug 2019 – May 2020

Berkeley, CA Jun 2017 – Aug 2017

Jan 2018 – May 2019

Berkeley, CA

Jun 2017 – Aug 2017

May 2018 – Aug 2018

Santa Clara, CA