Daniel Ho

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

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Education

- **University of California, Berkeley** — Berkeley, CA
  B.S., Electrical Engineering & Computer Science; GPA: 3.94 — *Aug 2015 – May 2019*
- **Relevant Coursework**
  - **AI/ML Related**: Intro to Artificial Intelligence, Intro to Machine Learning
  - **Software Related**: Data Structures, Efficient Algorithms, Database Systems
  - **Math Related**: Linear Algebra, Multivariable Calculus, Optimization Models, Concepts of Statistics, Probability and Random Processes

Industry Experience

- **Amazon Lab126** — Santa Clara, CA
  Software Development Engineer Intern — *May 2018 – Aug 2018*
  - Designed and implemented a service that makes calls to NoSQL database to provide internal Alexa clients with category information and query parsing to identify search keywords
  - Performed load testing to analyze functionality and latency of new system compared to existing system
- **Jakin Technology Ltd.** — Fotan, Hong Kong
  Software Engineer Intern — *Jun 2016 – Aug 2016*
  - Researched and tested functions and capabilities of HID iClass SE smartcard reader module

Research

- **ASPIRE Lab** — Berkeley, CA
  Undergraduate Researcher — *Jan 2018 – Present*
  - Trained convolutional neural networks on Cityscapes dataset using modified version of DeepLabv3+, in which convolutional layers were replaced with "shift" modules to reduce number of parameters and flops
- **RISE Lab** — Berkeley, CA
  Undergraduate Researcher — *Jun 2017 – Aug 2017*
  - Conducted benchmark tests on convolutional neural networks (CIFAR 10/100 datasets) and sequence to sequence models using alternative activation functions
  - Designed set of linear approximations of softmax function, more suitable for efficient encryption

Projects

- **EthTracker (daniel-ho.github.io/EthTracker)** — *Jun 2017 – Aug 2017*
  - Dynamically updated web page data and charts in real-time using a combination of socket.io library and HTML requests from CryptoCompare API
  - Created area and scatter plot visualizations of Ethereum price trends and major events using Dimple.js and D3.js

Extracurricular Activities

- **University of California, Berkeley** — Berkeley, CA
  Lab Assistant/Academic Intern — *Jan 2016 – May 2018*
  - Redeveloped lab material from previous semesters including Arduino code and iPython Notebooks
- **Eta Kappa Nu (EECS Honor Society)** — Berkeley, CA
  General Member — *Sep 2016 – Present*

Skills

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