

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 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
- **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