# 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 | Alexa Local Search Platform Team** — 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

**ADEPT 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