

Daniel Ho

Website: daniel-ho.github.io

Contact Information

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EDUCATION

University of California, Berkeley

Berkeley, CA

B.S., Electrical Engineering and Computer Science

Expected graduation date: May 2019

- **Cumulative GPA:** 3.93

- **Relevant Coursework:**

CS61B: Data Structures

Math 53: Multivariable Calculus

CS61C: Great Ideas in Computer Architecture

Math 54: Linear Algebra/Differential Equations

CS186: Introduction to Database Systems

CS70: Discrete Math and Probability Theory

CS188: Introduction to Artificial Intelligence

EE120: Signals and Systems

CS189: Introduction to Machine Learning

CS170: Efficient Algorithms and Intractable Problems

PROJECTS

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

July 2017 – August 2017

- Created area and scatter plot visualizations of Ethereum price trends as well as major events involving Ethereum using Dimple.js and D3.js libraries
- Dynamically updated web page data and charts in real-time using a combination of socket.io library and HTML requests from CryptoCompare API
- Designed Android widget that tracks Ethereum price data using Volley HTTP library

BearMaps

April 2016

- Implemented backend web server for web mapping application based on Google Maps
- Utilized quad tree data structure for map rastering and A* searching algorithm to find shortest paths

WORK EXPERIENCE

RISE Lab

Berkeley, CA

Machine Learning Researcher

June 2017 – Present

- Explored the possibility of using encrypted data to train standard neural net structures for applications ranging from medical research to home security devices
- 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
- Authored paper accepted to AI Systems Workshop @ SOSP 2017

Jakin Technology Ltd.

Fotan, Hong Kong

Intern

June 21, 2016 – August 5, 2016

- Researched functions and capabilities of HID iClass SE smartcard reader module for incorporation in future models of company products
- Developed basic device driver interface to interact with smartcard reader module using C programming language and Linux operating system

EXTRACURRICULAR ACTIVITIES

University of California, Berkeley

Berkeley, CA

EE16B Lab Assistant/Academic Intern

January 2016 – Present

- Educated students about various applications of electrical engineering concepts
- Redeveloped previous semesters' lab material including Arduino code and iPython Notebooks after following introduction of new control scheme in Robot Car Project

Eta Kappa Nu (National EECS Honor Society)

Berkeley, CA

Tutoring Committee Member

September 2016 – Present

SKILLS

Languages: Python, Java, HTML/CSS, JavaScript, PostgreSQL, LaTeX, C

Libraries/Frameworks: D3.js, Dimple.js, TensorFlow, NumPy, Matplotlib, pandas