

David Yan

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WORK EXPERIENCE

OASIS LABS, San Francisco, CA

Software Engineer, August 2018 – April 2020

- Led project to create an app on a third-party hardware security module to allow users to securely store and access their crypto wallets.
- Wrote all of the backend for a dashboard website to allow users to easily deploy decentralized services.

Software Engineering Intern, May 2018 – August 2018

- Experimented with TVM, an open stack machine learning platform, in order to run it from within an Intel SGX enclave (hardware secure and isolated computing environment).

GOOGLE, Palo Alto, CA

Software Engineering Intern, May 2017 – August 2017

- Redesigned existing MapReduce pipeline for autocomplete. Optimized pipeline stages to run in parallel, thus improving performance by 90%.

RESEARCH AND ACADEMICS

UC BERKELEY, Berkeley, CA

Researcher, April 2020 – present

- Deep Learning Research with Prof. Dawn Song and Facebook AI Research.
 - Brainstormed and implemented experiments to exploit weaknesses in agents trained with Neural MCTS.
 - Strongest adversarial agent was able to achieve a 100%-win rate without any additional training.
- Machine Learning Systems Research with Prof. Dawn Song and DARPA.
 - Completed tasks to get project ready to be open sourced.

UNIVERSITY OF SAN FRANCISCO, San Francisco, CA

Adjunct Professor, January 2020 – May 2020

- Taught a class of 30 students Introduction to Computer Science as the sole lecturer.
- Responsible for managing all aspects of the class including lesson plans, assignments, grading, and managing TA's.

UC BERKELEY, Berkeley, CA

Researcher, June 2019 – September 2019

- NLP and Federated Learning Research with Prof. Dawn Song.
 - Implemented experiments for using the latest NLP model (BERT) to detect malware from source code of Android applications.
 - Implemented and benchmarked a Distributed Machine Learning (a.k.a. Federated Learning) platform.

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Bachelor of Science in Electrical Engineering and Computer Science, May 2018

Honors: *cum laude* (GPA: 3.84/4.0)

OTHER

Experience with **Go, Python, Tensorflow/PyTorch, Java, C++, C, Rust, language agnostic**

Member of Eta Kappa Nu, EECS Honors Society at UC Berkeley