

# William Arnold

(510)–529–8523

willarnold@berkeley.edu

linkedin.com/in/~arnold

## EDUCATION

University of California, Berkeley, College of Engineering Class of 2021  
Bachelor of Science – Electrical Engineering and Computer Science  
GPA: 4.0, Dean's List

*With a focus on*  
Machine Learning  
Differential Geometry

## EXPERIENCE

Eluvio

Berkeley, CA

*Cryptosystems Intern*

*June 2020 — August 2020*

- Built a key-splitting and distributed trust scheme to secure high value assets in a federated system.
- Designed and implemented a prototype consumer-scale, identity-based asset access scheme to allow content secured by an ethereum-backed system to be securely and efficiently purchased.

Procore Technologies

Santa Barbara, CA

*Machine Learning Intern*

*June 2019 — August 2019*

- Combined supervised image encoding with a Gaussian-based clustering algorithm in order to find latent classes in a dataset of construction images. This successfully produced a low-noise dataset 8x larger than any existing dataset and greatly increased model performance.
- Built a web-based image annotation tool that increased manual data annotation efficiency by 220%.

Activate Inc., at Google

San Francisco/Berkeley, CA

*Chief Technical Officer*

*February 2016 — August 2018*

- Organized and implemented a feature-diverse, spatial, unsupervised machine learning algorithm to identify the most attractive food concepts around 50+ locations in the Bay Area for a Fortune 500 company.
- Collaborated with economists from NYU in order to create a scalable, demographic and restaurant quality-based AI to predict restaurant success at 1000+ target locations across California.
- Built a deep learning-based model to predict how individuals move and eat in Google Cafes to reduce food waste and ensure more effective resource utilization in future Google buildings.

Skydeck Berkeley

Berkeley, CA

*Data Analyst and Ambassador*

*July 2016 — July 2018*

- Developed a data analysis tool to measure Skydeck event attendance and effectiveness among startups.
- Designed and created a financial analysis tool to measure and predict startup success using Skydeck's history of startup acquisitions, team backgrounds, employee counts, and other team metrics.

Gradescope

Berkeley, CA

*Android Developer*

*September 2014 — July 2016*

- Designed and built a comprehensive beta Android app for students to enhance mobile the student homework submission experience.

## ACTIVITIES

CS70 Discreet Math and Probability Theory — uGSI/TA

*August 2018 — current*

Taught undergraduates taking discreet math and probability theory (CS70) at UC Berkeley, providing better insight into topics such as Galois Fields, Countability, and Probability Theory. Additionally, held office hours, proctored, and graded exams.

Cal Sailing Team — Varsity Skipper and Fleetmaster

*August 2018 — current*

Sailed and maintained FJs at Treasure Island Sailing Center and competed in Pacific Coast Conference Regattas. Was bowman for the Varsity boat in Big Sail 2018 against Stanford in J/22s at St Francis Yacht Club. Held racing tactics and sail trim lessons for team members.

## SKILLS AND RELEVANT COURSES

Quantum Computing  
Data Analysis  
Machine Learning

Parallel Algorithms  
Distributed Computing  
Deep Learning

Efficient Algorithms  
Android Development  
Probability Theory

Discrete Math  
Honors Linear Algebra  
Honors Analysis