

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

With a focus on
Machine Learning
Manifold Calculus

EXPERIENCE

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 the size of the originally tagged 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 points across California.
- Independently created 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.
- Created a geospatial algorithm to determine the relative size of food courts in retail-based malls and office buildings for the largest mall chain in Chile.

Skydeck Berkeley

Berkeley, CA

Data Analyst and Ambassador

July 2016 — July 2018

- Developed a comprehensive data collection and 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

- Collaborated with team members to design and implement a comprehensive mobile API for better student user experience.
- Designed and built a comprehensive beta Android application for students to enhance the mobile homework submission user experience.

ACTIVITIES

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.

CS70 Discreet Math and Probability Theory — Tutor and Grader

August 2018 — current

Tutored undergraduates taking discreet math and probability theory (CS70) at UC Berkeley, providing better insight into topics such as Galois Fields, Countabilty, and Probability Theory. Additionally, assisted students during office hours and graded homework.

SKILLS AND RELEVANT COURSES

Android Development
Data Analysis
Machine Learning

Project Management
Distributed Computing
Probability Theory

Efficient Algorithms
Machine Structures
Systems and Controls

Discrete Math
Honors Linear Algebra
Honors Analysis