

# William J. Gan

Senior studying Computer Science and Applied Mathematics at UC Berkeley. Interested in computer vision and machine learning.

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## Education

### University of California, Berkeley

August 2016 – May 2020

B.A. Computer Science, Double Major in Applied Mathematics.  
GPA: 3.94/4.00.

## Experience

### Google, Earth Engine – SWE Intern

May 2019 – August 2019

Analyzed climate model predictions data at the terabyte scale. Evaluated accuracy compared to historical values and identified temporal and geospatial trends in biases.

### EECS 126 – Head uGSI

August 2019 – Present

Leading a 250-student upper division probability course. Responsibilities include writing exam / homework problems, making policy decisions, and handling logistics.

### Google, Maps – SWE Intern

May 2018 – August 2018

Developed a tool to filter duplicates in Google's Point of Interest database. Enabled the Local Algorithmic Identity team to discover patterns in duplicated data and tune the model used to find them.

### Ushur – Intern

May 2017 – July 2017

Created an NLP pipeline to improve Ushur's automated customer engagement system. Trained an ensemble of models in conjunction with traditional methods to match user messages to intents.

## Achievements

### CS 61A Hog Competition

1st place in an AI Competition among 1600 students.

### USA Computing Olympiad

Competed at the Platinum level, roughly top 150 in the nation.

## Skills

C/C++, Python, HTML, CSS, JavaScript, Java, SQL.

## Coursework

Structure and Interpretation of Computer Programs

Data Structures

Computer Architecture

Discrete Math and Probability

Signals and Systems

Probability, Random Processes, and Inference

Convex Optimization

Operating Systems

Advanced Algorithms

Computer Graphics

Machine Learning

Information Theory