

# William J. Gan

Rising senior studying Computer Science and Applied Mathematics at UC Berkeley. Interested in statistics and machine learning. Pursuing a Master's in Computer Science.

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## Education

### University of California, Berkeley

August 2016 – May 2020

B.A. Computer Science, Double Major in Applied Mathematics.  
GPA: 3.93/4.00.

## Experience

### Google, Earth Engine – SWE Intern

May 2019 – August 2019

Analyzed climate model predictions and their accuracy compared to historical values. Identified temporal and geospatial trends in biases and informed the Environmental Insights Team of their strengths and limitations.

### EECS 126 – Head uGSI

August 2019 – Present

Leading a 200-student upper division probability course. Responsibilities include writing exam / homework problems, maintaining the course website, 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