

Nathan Chan

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From Redwood City, CA

## Education

Bachelor of Science with Majors in Computer Science and Statistics  
University of California at Davis

GPA 3.74  
Graduation in June 2021

- Minor in Political Science, Dean's Honor List. Active in policy-making in student government.
- Relevant coursework in artificial intelligence, data structures, computer architecture, mathematics, and statistics.

## Skills

Python, C++, Linux, Bash, Git

Consumer testing, troubleshooting hardware and software, communicating, critical thinking, learning, problem-solving.

## Experience

### **Data Analyst**

Davis, CA  
May 2019 to Present

UC Davis Center for Mind and Brain

- Built Python web-scraper software to collect data from government websites after learning data formats. Used numpy and pandas to parse, clean, transform, and store data for analysis by researchers.
- Built Bash and Python pipeline in Linux to process brain imaging data from raw files to a usable format.
- Wrote code in R to parse, clean, transform, and store data for analysis by researchers. Studied the organization of hormone, heartbeat, sleep, and survey data for software implementation.
- Rebuilt California Families Project website and Personality Development Collaborative website.

### **Course Grader**

Davis, CA  
April 2019 to February 2020

UC Davis Department of Statistics

- Graded homework assignments from 150 students per class in upper-division statistics courses.

### **Research Assistant** in Data Analysis

Davis, CA  
September 2017 to June 2018

UC Davis Asian American Center on Disparities Research

- Researched, wrote, and presented research poster with a team at a research conference.
- Performed data analysis on a sample of 425 students and found ethnic and gender differences in face concern.
- Administered surveys and interviews to 30 study participants individually for later published research.

### **Data Entry Clerk**

Davis, CA  
January 2019 to October 2019

UC Davis Alumni Relations

- Adjusted and entered bibliographical information in a database of 1 million people to help reach university donors.
- Verified donation amounts and uploaded receipts to a database. Organized confidential financial information.

### **Math Instructor**

Foster City, CA  
February 2017 September 2017

Mathnasium Learning Center

- Taught math one-on-one to over 60 students K-12 from diverse backgrounds so students succeed in school.

## Projects

### **Identifying Water Ice on Mars** using Radargrams and Image Features

June 2020 to Present

- Extracting image and texture features from radargrams of subsurface of Mars to identify water ice using R.
- Analyzing the relationship of ice depth and features of radargrams.

### **Calories Per Dollar** Mobile App

March 2020

- Simple calculator to output calories per dollar based on calories, serving, and price. Used Kotlin in Android Studio.

### **Boat**

June 2020 to Present

- Early prototyping of a planned autonomous three-person boat to sail the lagoon.

### **Eagle Scout**

May 2016

- Led teams in environmental projects and excursions. Leadership, team-building, and volunteering. And singing.