# Waylon Peng

Computer Science student at the University of California, Santa Cruz.

(510) 996-8167
waylonpeng.com
**waylonpeng@gmail.com**

## EXPERIENCE

### **Google,** Sunnyvale, CA — *Intern*

JUNE 2020 - SEPTEMBER 2020

- Created methodologies to identify mutexes in a network topology modeling service.
- Designed and implemented a full-stack data visualization dashboard using Angular to display these mutexes.
- Improved performance of existing backend queries by 50x.

### **Google,** Austin, TX — *Intern*

JUNE 2019 - SEPTEMBER 2019

- Designed procedures for analyzing string assets in Google Play services Android binaries.
- Trained machine learning model to predict translated string sizes.
- Integrated model into binary size tracking tooling for Google Play services developers.

### **Mindspark Summer,** Sunnyvale, CA — *Instructor*

JULY 2018 - AUGUST 2018

- Taught middle school students introductory Java using Eclipse
- Taught middle/high school students game design principles using Processing library

### **Dept. of Navy SEAP,** Naval Postgraduate School — *Intern*

JUNE 2017 - AUGUST 2017

- Designed procedures to manufacture and dope titania nanotubes
- Constructed apparatus to characterize photoelectrochemical properties of fabricated nanotube arrays
- Compiled, analyzed, and presented experimental data

### **UCLA David Geffen School of Medicine,** UCLA — *Intern*

JULY 2016 - AUGUST 2016

- Created CUDA models of human cardiac cells to be run on university GPU clusters
- Simulated and characterized biochemical conditions found in Long Q-T Syndrome patients

## PROJECTS

### waylonpeng.com

Personal website built using Jekyll and hosted on Github Pages.

### Mission Possible

Rube Goldberg-like machine with sensor-driven events controlled by Arduino and Raspberry Pi units. Construction involved designing circuits to utilise sensors, developing scripts to process sensor data, and manual calibration of sensors using collected data.

## EDUCATION

### University of California, Santa Cruz

SEPT 2018 - JUNE 2022

Junior, Class of 2022, Computer Science major, Mathematics minor. 3.91 GPA

## SKILLS

*Presented in order of familiarity.*

**Languages** - Python, Typescript, SQL, HTML, CSS, Java, C++, C

**Databases** - PostgreSQL, SQLite

**Misc** - Angular, Linux/Unix, Git, Arduino/Raspberry Pi

## COURSEWORK

**Ohlone College**

- Introduction to C++,
- Introduction to Java,
- Discrete Structures

**UC Santa Cruz**

- Computer Systems and Asm.
- Algos and Abs. Data Types
- Prin. of Comp. Sys. Design
- Into to Networking
- Intro to Proof and Prob Solving
- Intro to Number Theory
- Intro to Probability Theory
- Applied Discrete Mathematics
- Vector Calculus
- Linear Algebra