

# WILLWANG

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## EDUCATION

Berkeley, California  
August 2016 to May 2020

### University of California, Berkeley

B.S. Electrical Engineering and Computer Science  
Overall GPA: 3.72 Major GPA: 3.93

Carson, California  
June 2013 – May 2016

### California State University, Dominguez Hills

High School Concurrent Enrollment  
Overall GPA: 3.93

## EXPERIENCE

Berkeley, California  
April 2016 – Present  
Python, JavaScript, Spark,  
Docker, Quilt, Go, Nginx,  
AWS

### Netsys Laboratory, Berkeley

Undergraduate Research Assistant

- Worked on Throttlebot, a Python application to identify resource utilization bottlenecks in a distributed system by systematically throttling container resources.
- Integrated cAdvisor, a Google container resource monitoring tool, with Throttlebot and the container orchestrator Quilt to measure and model container resource utilization data.
- Co-authored a research paper on the theory, effectiveness, and uses of Throttlebot.

Long Beach, California  
August 2016 – June 2016  
AutoCAD, CATIA, Excel

### Gulfstream Aerospace

High School Apprentice

- Worked with the mechanical engineering teams on interior design drawings of G550 and G650 aircraft.
- Used AutoCAD and CATIA to model aircraft interior and parts.
- Was honored with the Mach 3 award for outstanding work

## PROJECTS

CS 61B: Data Structures  
Spring 2017  
Java

### BearMaps

A data structures and algorithms focused Google Maps-esque web app that allows users to interact with a map of Berkeley. Implemented features such as zooming, routing, autocomplete, location searching, and map rastering using computer science topics such as quadrees, tries, hashables, and the A\* search algorithm.

CS 61B: Data Structures  
Spring 2017  
Java, SQL

### Database

Designed and built a SQL-like relational database management system (RDBMS) and corresponding Domain Specific Language (DSL) in Java with commands such as load, store, select, with, as, from, etc. Able to perform Cartesian joins of two or more tables in accordance to filter specifications defined by user input.

CS 61A: SCIP  
Spring 2017  
Python, Scheme

### Scheme Interpreter

Build a interactive interpreter for the functional programming language Scheme, a common dialect of Lisp. Implement a Read-Eval-Print Loop (REPL) that keeps track of variables and environments.

## SKILLS

### Languages

Python Ruby  
Java Scheme  
JavaScript SQL  
C HTML/CSS

### Frameworks, Environments, Programs

Bootstrap Docker  
Spark Unix  
Quilt AWS  
Node.js Nginx

### Applications

AutoCAD  
Inventor  
Solidworks  
CATIA