

# DUSTIN CHEN

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## Education

University of California, Berkeley

Expected Graduation: Spring 2021

Double Major: Computer Science and Applied Mathematics

GPA: 3.74/4.00

Neuqua Valley High School - Naperville, Illinois

May 2017

GPA: 4.50/4.00 summa cum laude

## Coursework

### Computer Science:

**Skills:** Data Structures, Algorithms, Python, Java, C, SQLite, Lisp, HTML, CSS, JS, Adobe XD

- **CS 61A** – Environment diagrams, Recursion, Object Oriented and Declarative Programming, Interpreters
- **CS61B** – **Data structures** and Object Oriented Programming in Java
- **CS61C** – **Machine Structures**. C, Assembly language, Synchronous Digital Systems and Parallelism
- **CS170** – **Algorithms**. Divide and Conquer, Graphs, Dynamic and Linear Programming, Searching
- **WDD** – **Web Design Decal**. Programming and Design concepts for creating web pages

### Mathematics:

- **Math 243** (Through University of Illinois) – Multivariable **Calculus**
- **Math 54** – **Linear Algebra** and Differential Equations
- **Math 110** – **Linear Algebra** (proof based)
- **CS70** – **Discrete Mathematics** and **Probability** Theory

## Projects:

1. **Amazons** – Amazons board game using Java and created an AI player that uses a minimax search algorithm to optimize moves based on the next 10 turns
2. **Graph Package** – Created a graph package in Java and implemented 2 clients that used it: a shortest trip finder using both A\* Search and Dijkstra's algorithm and a basic Make program
3. **C to RISC-V Compiler** – Implemented the Lexer, Parser, and Code Generator components with C

## Work Experience

Lab Assistant - UC Berkeley CS10 and CS61A

(January 2018 - Present)

Lab Assistant/Academic Intern for CS10 and CS61A lab and discussion sections as well as office hours.

Tutor - SY Academy, Berkeley, CA

(June 2018 - October 2018)

Taught Calculus, Linear Algebra, Discrete Mathematics, and Computer Science.

Team Member - Cal Dining Crossroads, Berkeley, CA

(September 2017 - April 2018)

Various food service tasks including dish room, line server, and clean up at Crossroads Dining Hall.