John A. Schulz

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Education:

University of California, Berkeley

Spring '21

Highland Park High School

Spring '17

Computer Science GPA: 3.53

Honor Society | High Honor Roll | GPA: 4.38 weighted, 3.75 unweighted

Professional Experience:

Dean's Office, College of Engineering, Berkeley, California Assistant |

August '18 - May '19

- Manage various projects including data entry, tracking budgets, online research, web-editing, and event preparations.
 - Apply expertise in SQL, Python, Excel, HTML/CSS, and the Adobe Suite to expedite project development process.

CS61B: Data Structures, Berkeley, California

January '19 - present

Computer Science Mentor

- Independently teach weekly six student discussions to cover course material and plan review sessions for exams.
- Help create review worksheets on important data structures that are covered throughout the course.

CS61A: The Structure & Interpretation of Computer Programs, Berkeley, California August '18 - present Academic Intern |

- Instruct weekly labs and office hours for CS61a, the first and most important Computer Science course at Berkeley.
- Sacrificed personal work to assist students in understanding concepts and completing very difficult course projects.

Schmooze, Berkeley, California

October '17 - March '18

Product Development and Marketing |

- Learned and applied Swift, Objective-C, and version control during the development of the company iOS app.
- Brainstormed and worked collectively with a group of 10 experienced programmers through GitHub.

Northmoor Country Club, Highland Park, Illinois

Head Lifeguard |

May '15 - August '18

- Managed pool operations, budgeting, recruitment, and scheduling of a group of 15 lifeguards.
- Created a Python Script with Google Sheets API to meet bi-weekly budgets and optimize scheduling for employees.

Project Experience:

SpotifyUp | Web application for users to login with Spotify, see their playlists, and filter with keywords.

July '19

JavaScript, React, Heroku web hosting, Spotify API, Promises, Map/Reduce, HTML, CSS.

Twitter Tweet Analyses | Generates a graph comparing likes and retweets of any twitter account.

April '19

Python, Twitter API, NumPy, Pandas, user input, command line prompts.

Graphs | A complete graph package implemented with a GNU make and navigation client. Java, Traversals, Depth First Search, Breadth First Search (postorder and preorder), Dijkstra's, A* search.

December '18

Game of the Amazons | A 10 by 10 board game implemented with a AI opponent.

November '18

Java, Game Trees, Minimax, Alpha-Beta Pruning, AI, GUI, Model-View-Controller.

October '18

Enigma | Modeled the physical Enigma Machine into a computer program.

Java, Encryption, Alphabets, Input/Output Files, Classes/Interfaces, Hashing, Unit and Integration Tests.

<u>Current</u> and Completed Course Work:

CS188: Artificial Intelligence

CS61C: Great Ideas in Computer Architecture

DATAC100: Principles & Techniques of Data Science

CS70: Discrete Mathematics & Probability Theory

STAT133: Concepts in Computing with Data

CS61B: Data Structures

• EE16A/B: Designing Information Devices and Systems • CS61A: The Structure & Interpretation of Computer Programs