

# Matthew Mahoney

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## Education

### UC Berkeley

B.S. in Electrical Engineering and Computer Science | 2022 - 2024

Relevant Coursework: The Structure and Interpretation of Programming Languages, Designing Information Devices and Systems, Discrete Mathematics and Probability

### Diablo Valley College

A.S. in Computer Science | 2018 - 2021

Received a degree with honors in computer science with a GPA of 3.76.

Relevant Coursework: Data Structures & Algorithms, Advanced Programming in C & C++, Programming in Java, Assembly Language Programming, Calculus III, Differential Equations, Linear Algebra, Discrete Mathematics, Heat & Electromagnetism, Optics & Modern Physics

## Projects

### Elevator Simulator with GUI

- Utilized Polymorphism and other Object-Oriented Programming principles to create a reliable and maintainable system
- Used the MFC to create a simple and intuitive visual interface

### DijkstraBook

- Used Graph Theory principles in conjunction with Dijkstra's Algorithm to demonstrate degrees of separation in social media platforms

## Skills

C++, C, Java, Python, x86 Assembly Language, Microsoft Visual Studio, MFC

## Experience

### UC Berkeley Computer Science Course Staff

Academic Intern | Berkeley, CA | 2023

Tutored and assisted students in lab section. Provided technical and problem-solving guidance to students.

### Vans

Sales Associate | Walnut Creek, CA | 2021 - 2022

Created sales with customers and met or exceeded personal metrics. Worked with associates to maintain store standards. Handled transactions. Organized new shipments and stock.

### Safeway

Courtesy Clerk | Orinda, CA | 2016 - 2020

Assisted with customer service needs. Maintained and organized the front-end of the store. Assisted with backroom and logistical duties.