## EDUCATION

### **UC BERKELEY**

B.S. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

May 2022

College of Engineering

GPA: 3.9 / 4.0

# COURSEWORK

### **BERKELEY**

Data Structures

Efficient Algorithms and Intractable

Problems

Probability and Random Processes Introduction to Artificial Intelligence Discrete Mathematics and Probability

Theory

Machine Structures

#### **OTHER**

Linear Algebra Machine Learning

# SKILLS

## **LANGUAGES**

Advanced:

- Java
- Python

Familiar:

- (
- (++
- SQL

### **SOFTWARE**

- Git
- PyTorch
- Unix-like operating systems

### **OTHER**

- Unit and integration testing
- ATEX
- Statistics and probability
- Machine learning

# **EXPERIENCE**

#### BERKELEY FECS DEPARTMENT

#### Undergraduate Student Instructor (uGSI)

June 2020 - Present | Berkeley, CA

- Teaching discussion sections of 40 students twice a week and holding weekly office hours for Discrete Mathematics and Probability Theory
- Contributing to weekly staff meetings with professors and other uGSI's to create plans for incoming weeks

# **PROJECTS**

## CHESS AI | JUNE 2020 - PRESENT

- Developing a Chess AI in Java that plays using a multi-threaded Monte Carlo tree search with a random rollout policy
- Current single-threaded AI capable of beating top-1000 ranked players on Daily mode on chess.com

### LINES OF ACTION | March 2020 - April 2020

- Implemented Lines of Action board game in Java playable via command line or GUI using AWT and Swing
- Optimized an alpha-beta pruning game tree search heuristic that won
  2nd place in 500-entrant tournament

## SILAS | October 2019 - December 2019

- Created linear algebra command line utility using Python and NumPy to help students visualize computations in EECS 16A
- Substantially improved many users' understanding of elementary matrix operations

#### HEX ROCKETS | September 2018 - January 2019

- Collaborated with one friend to develop and maintain a Java cross-platform mobile game teaching hexadecimal arithmetic
- Won the Congressional App Challenge and received over 500 installs across iOS and Android with primarily 5-star reviews