EDUCATION

UC BERKELEY

B.S. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

May 2022

College of Engineering

GPA: 3.93 / 4.0

COURSEWORK

BERKELEY

Probability and Random Processes Introduction to Artificial Intelligence Efficient Algorithms and Intractable Problems

Introduction to Articial Intelligence Computational Learning Theory (IP) Optimization Models in Engineering (IP)

OTHER

Linear Algebra

Machine Learning (Stanford CS 229) Convolutional Neural Networks for Visual Recognition (Stanford CS 231n)

SKILLS

LANGUAGES

Advanced:

- Java
- Python

Familiar:

- (
- (++
- SQL

SOFTWARE

- Git
- Unix-like operating systems

OTHER

- Tensorflow
- NumPy
- Machine learning
- Statistics and probability

EXPERIENCE

BERKELEY FECS DEPARTMENT

Undergraduate Student Instructor (uGSI)

Head uGSI January 2020 - Present, 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
- Received 4.53/5 average rating from students, over 1 standard deviation above department average, and 5/5 median rating

PROJECTS

RIZNETS | DECEMBER 2020 - PRESENT

- Developing neural network architectures (feedforward, CNN, RNN)
 from scratch using NumPy along with basic CLI to manage and train
- Simple feedforward neural network achieves **92% test accuracy** when **trained on subset** of MNIST dataset
- Currently working on manually implementing CNN architecture and backpropagation

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 a friend to develop and maintain a Java cross-platform mobile game teaching hexadecimal arithmetic
- Won the Congressional App Challenge and received over 100 installs across iOS and Android with primarily 5-star reviews