

# WingYeung Ma

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## EDUCATION

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**University of California, Berkeley, CA**

**Aug 2021 - Dec 2023**

Bachelor of Arts in Data Science

GPA:3.765/4.0

**Relevant Coursework:** Ind Eng 172: Probability and Risk Analysis for Engineers, CS 61A: Structure and Interpretation of Computer Programs (Python, SQL), CS 61B: Data Structures (Java), Math 124: Programming for Mathematical Applications (Julia), CIVENG C88: Data Science for Smart Cities (Python), Ind Eng 115: Industrial and Commercial Data System (SQL), Data 100: Principles & Techniques of Data Science(Python, Pandas, Numpy)

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## SKILLS

**Languages:** Python, Java, Julia, R, SQL , Git

**Libraries:** Numpy, Pandas, Scikit Learn, Express, Node

**Databases:** MongoDB, MySQL

**Web Technologies:** HTML5, CSS, JavaScript

## HIGHLIGHTED PROJECTS

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**Project - The Enigma**

**Fall 2021**

*Course: CS 61B: Data Structures*

- Developed the Enigma machines with Java. It built off of several classes with Java Object Oriented Features. It included creating classes for machines, permutation, moving rotor, and reflector.
- Using some of the important data structures in java(Arrays, Hash Table, Linked List, Graph, and Tree) to minimize the time complexity.
- Learned how to use git codes to add file, push commit, restore file, and create branches in GitHub.

**Project - Housing**

**Fall 2022**

*Course: Data 100: Principles & Techniques of Data Science*

- Apply linear regression and multiple regression to predict the value of houses in Cook County.
- Implement the Bias-Variance Trade off to find the best parameter for our multiple regression model.
- Using cross validation, holdout and k-fold to estimate the performance on our data.

**Project - Neural Networks for Character Recognition**

**Spring 2022**

*Course: Math 124: Programming for Mathematical Application*

- Predicting the regular characters for the noisy characters with Julia programming Language.
- Machine learning using a multilayer perceptron with a single hidden layer.
- Input training data into the computer and use the model to predict new characters.

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

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**Encinal High School - Alameda, CA**

**September 2018 - June 2019**

Badminton Team Captain

- Organized practice for the team, created a weekly schedule for team members, organized team activities, and leave memories to all team members and coaches.
- Be responsible to the team by checking on necessary material for practice, communicating with the coach, school, and third-party organization, along with answering questions that team members have.

**MeetFresh - Oakland, CA**

**June 2019 - September 2019**

Shift Lead

- Monitored inventory and reported to store manager/store owner regarding low-stock items.
  - Provided memorable customer service by assisting with merchandise when needed for meeting store demand.
  - Managed other employees' rest time and lunch break. Ensured the overall quality and satisfaction of the store.
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