Tony Ding

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EDUCATION

University of California, Los Angeles (UCLA) — B.S. Computer Science

Expected – Jun. 2023

Member of Upsilon Pi Epsilon (UPE) and Tau Beta Pi (TBP) @UCLA

GPA: 4.0/4.0 SAT: 1550/1600

PROJECTS

Music Recommendation System

Apr. 2021 - Present

Accomplished personalized music recommendation by using CF/CB recommendation algorithms and Machine Learning

- Performed pre-ranking using Collaborative Filtering/Content Based algorithm based on MapReduce
- Performed re-ranking using model based on Logistic Regression
- Constructed feature database using Redis
- Built recommendation engine using Python Django
- Performed distributed computing using Spark on Hadoop cluster

Bring Fitness Center Online (Full Stack)

Oct. 2020 - Dec. 2020

Enabled gym users to keep track of real-time equipment availability and make workout plans/interact on the app.

- A full stack web app written in JavaScript using Next.js as framework and MongoDB as database.
- Achieved dynamic display of data and user search results by writing a **REST Api** to fetch data from server side

GooberEats Delivery

Jan. 2020 – Mar. 2020

Finds the optimal route for delivery given a set of destinations by implementing A*/ Dijkstra's algorithm in C++

- Implemented a HashMap data structure similar to C++ STL unordered _map that hashes street segments
- Return optimal route from start to destination using A*/DFS algorithms
- Optimize the order of deliveries given a set of destinations by using Simulated Annealing Algorithm

Website Development

July. 2020 – Present

Link: tismine-git.github.io

- Video background fixed upon scroll, Flip card and dynamic typing effects
- Interaction form to communicate

SKILLS

Python • Java • C++ • MySQL • MongoDB • Next.js • JavaScript • HTML • CSS • React • Git

Scikit-learn • Hadoop • Spark • Yarn • HDFS • Linux • Docker • VMWare

Relevant Courses: Database systems, Software construction (C++, Java, Python, HTML/CSS, etc.), Data science, Probability statistics, Machine Learning, Artificial Intelligence, Algorithm and complexity, Operating system, Data structure and algorithm, Programming languages

EXPERIENCES

Sias University

Jun. 2020 - Sept. 2020

Campus debit card Consumption Analysis (Remote)

- Established real-time consumer/staff allocation model for 40k+ people on campus using HCO algorithm
- Built auditing and distributing model of grants and loans using Support Vector Machine and Apriori algorithm

University of California, Los Angeles Graduate Division

Oct. 2019 – Mar. 2020

On campus Information Technology

- Routine and emergency server debugging and configuration for the entire UCLA graduate division
- Windows, Linux, and MacOS setup and configuration for faculties