Yi Lyu

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EDUCATION

University of California, Los Angeles, Los Angeles, CA
B.S. in Machematics of Computation Sep. 2019 - June. 2021
GPA: 3.95 / 4.00

University of California, Davis, Davis, CA
Majored in Computer Science (Transferred Out) Sep. 2017 - June. 2019
GPA: 3.95 / 4.00

SKILLS & OTHERS

Programming: C++, Python, Java, SQL, Distributed Systems, AWS Platform, Hadoop/Spark, CUDA, Linux
Mathematics: Optimization, Machine Learning, Linear Algebra, Graph Theory, Cryptography, Analysis

EXPERIENCES

Nokia, Hangzhou, China
SW Engineer Intern Jul. 2019 - Sep. 2019
- Worked on log analysis toolchains in a distributed environment to boost development efficiency.
- Developed a Python tool that helps analyze tests in a Continuous Integration environment.
- Parsed C++ compiler logs and coverage files, analyzed data with Elasticsearch and Pandas, and visualized the results in Kibana.
- Implemented exception handlers and unit tests in a 5G development project.
- Facilitated the test analysis for more than 70 software engineers.

Back-aid, UC Davis
Web Developer Mar. 2019 - Jun. 2019
- Developed Back-Bandaid, a posture correction product, in a quarter-long Project Design course (ENG 002).
- Designed and built the website for Back-Bandaid, and pitched in class for potential investment.
- Final product ranked Top 3 across all sections.

Math 31AL, UCLA
Learning Assistant Sep. 2019 - Dec. 2019
- Tutored in an over-30-student Calculus disucssion section.
- Helped the TA prepare discussion materials.
- Answered Piazza questions and held exam review sessions.

PROJECTS

Video Games Sales Prediction, UCLA
Predicting global game sales based on crawled data Jun. 2020 - Sep. 2020
- Implemented the SVD imputation method in a paper in C++ with MKL.
- Implemented and trained prediction models such as Random Forest, Artificial Netural Network, and kNN.
- Wrote a Java Web Application with functionalities such as autocomplete.

Scytale, UCLA
A Python library for cryptography Jan. 2020 - Jun. 2020
- Implemented a variety of algorithms and cryptographic systems and published it on PyPI.

BearMap, UC Berkeley
A mapping service project similar to Google Maps Jun. 2018 - Aug. 2018
- Built a a Java Web Mapping application that performs routing and graph traversal.