Yi Lyu

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EDUCATION

University of California, Los Angeles, Los Angeles, CA
B.S. in Mathematics of Computation   Sep. 2019 – June. 2021
GPA: 3.95 / 4.00   Intended to pursue Master's degree afterwards

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
Libraries: Eigen, Tensorflow, PyTorch, Sciket-learn, Numpy, Scipy, Pandas
Mathematics: Optimization, Linear Algebra, Graph Theory, Cryptography, Analysis

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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 Gerrit log files, analyzed data with **Elasticsearch** and **Pandas**, and visualized the results in **Kibana**.
- Implemented exception handlers for a module on 5G cells activation and wrote unit tests with **gMock**.
- Facilitated the test analysis for more than 70 software engineers.

Back-Bandaid, UC Davis
Web Developer   Mar. 2019 – Jun. 2019
- Developed Back-Bandaid, a posture correction product, in a quarter-long Product Design course (ENG 002).
- Designed and built the website for Back-Bandaid with **Bootstrap** and **Javascript**.
- Pitched in class for potential investment and ranked Top 3 across all sections.

PIC 40A, PIC 16A, UCLA
Reader   Sep. 2020 – Dec. 2020
- Read and grade students' homework and quizzes in Web Application and Python classes.

Math 31AL, UCLA
Learning Assistant   Sep. 2019 – Dec. 2019
- Tutored in an over-30-student Calculus discussion 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 Neural 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 Java Web Mapping application that performs routing and graph traversal.