

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

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-Bandaïd, UC Davis

Web Developer

Mar. 2019 – Jun. 2019

- Developed Back-Bandaïd, a posture correction product, in a quarter-long Project Design course (ENG 002).
- Designed and built the website for Back-Bandaïd, and pitched in class for potential investment.
- Final product 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.
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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.