

# Yi Lyu

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## EDUCATION

**University of California, Los Angeles**, Los Angeles, CA

**B.S. in Mathematics of Computation**

GPA: 3.95 / 4.00

Sep. 2019 – June. 2021

Intended to pursue Master's degree afterwards

**University of California, Davis**, Davis, CA

**Majored in Computer Science (Transferred Out)**

GPA: 3.95 / 4.00

Sep. 2017 – June. 2019

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## SKILLS & OTHERS

**Programming:** C++, Python, Java, SQL, Distributed Systems, AWS Platform, Hadoop/Spark, CUDA, Linux

**Libraries:** Eigen, Tensorflow, PyTorch, Scikit-learn, Numpy, Scipy, Pandas

**Web Development:** Frontend Development, Spring, Nginx, Django, nodejs

**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-Bandaïd**, UC Davis

**Web Developer**

Mar. 2019 – Jun. 2019

- Developed Back-Bandaïd, a posture correction product, in a quarter-long Product Design course (ENG 002).
- Designed and built the website for Back-Bandaïd with **Bootstrap** and **Javascript**.
- Created a web application with **nodejs** and **DynamoDB** that supports account creation and order processing.
- 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.
  - 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.