# Emery Yu

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## Education

**University of California, Los Angeles** - Los Angeles, CA                September 2020 – June 2022
*Bachelor of Science in Mathematics of Computation, Minor in Statistics*
GPA: 3.98/4.0
Honors: Dean's List, all quarters in attendance

Relevant Courses: Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, Software Construction, Computer Organization, Machine Learning, Probability, Mathematical Statistics

**University of California, San Diego** - La Jolla, CA                September 2019 – September 2020
Attended as a Computer Science Major

## Relevant Experience

**Kuaishou Technology Company,** *Security (Backend) Engineer Intern* – Beijing, China     July 2021 – September 2021
- Designed and developed the project, URL Security Examination, to check the security of advertisements' URLs.
- Set the judgement standards, extracted malicious features of Javascript, designed and optimized the plan.
- Developed all testing modules, including checking each webpage's response, code, and content, with **Java** and **Spring Boot**.
- Used **machine learning** algorithms, like **Random Forest** and **Bagging**, to train models to recognize phishing websites, achieving high accuracy.

**Silver Box Technology Company,** *Software Testing Engineer Intern* – Hangzhou, China          July 2020 – August 2020
- Tested and reported bugs on the Silver Box System, which provides a restaurant cash register system, catering cash register software, and smart POS services. Updated the system to cater for businesses' new demands.
- Learned to develop the "Sweep Order" project, which allows customers to use QR codes to order and pay.

## Projects

**Exploration of DNN and CNN on Fashion Images**                May 2021 – June 2021
- Used **Deep Neural Networks (DNN)** and **Convolutional Neural Networks (CNN)** to train a model to classify fashion images that belong to 10 different classes, respectively. It was written in **Python**.
- Compared the results and concluded the differences and similarities between these two algorithms based on their performance.

**Web App: MyCashbook**                January 2021 – March 2021
- Designed and developed a full-stack application that can be used to record and analyze one's consumption using **JavaScript**.
- Enabled users to view their consumption summary with a graph, which shows the amount and percentage of each category.
- Used **React** for the frontend and **Express** for the backend; stored data in **MongoDB**; used **GraphQL** to query data from and send data to the backend with a specified schema.

## Activities & Leadership

**Association for Computing Machinery at UCLA, Member**                September 2020 – Present
- Attended workshops in artificial intelligence and machine learning.

**Chinese Union, Member**                September 2019 – June 2020
- Organized the Night Marketing and Singer Competition, involving more than 1000 students.

## Skills

**Languages:** Chinese(native), English(fluent)
**Programming Languages:** Java, C, C++, Python, R, JavaScript, HTML/CSS, SQL
**Technical Skills:** Android, Spring, MySQL, Git, React, Linux, vim, Visual Studio