**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, Networking, Databases, Software Construction, Computer Organization, Machine Learning, Probability

**University of California, San Diego** - La Jolla, CA September 2019 – September 2020

Attended as a **Computer Science** Major

**Relevant Experience**

**Kuaishou Technology Company, *Software (Security) Engineer Intern*** – Beijing, ChinaJuly 2021 – September 2021

* Designed and developed the project, **URL Security Examination**, to check the security of external websites’ URLs.
* Extracted malicious features of Javascript, designed and optimized the **technical specification document**.
* Developed all testing modules, including checking each webpage’s response, code, and content, with **Java** and **Spring Framework**. **Multithreading** was used to allow concurrent execution of different modules.
* Used **machine learning** algorithms, like **Random Forest** and **Bagging**, to train models to recognize phishing websites, achieving high accuracy. The checking results were stored in **MySQL**.
* The project influenced over **1 billion** monthly active users of our app.

**SilverBox Technology Company, *Software Engineer in Test Intern*** – Hangzhou, ChinaJuly 2020 – August 2020

* **Tested and reported bugs** on the Silver Box System, which provides functions like online cash register 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 used **Python** and **TensorFlow**.
* Compared the results and concluded the differences and similarities between these two algorithms based on their performance.

**Web App: MyCashbook** ***https://distracted-bhaskara-145a02.netlify.app*** January 2021 – March 2021

* Designed and developed a full-stack application recording and analyzing 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**

**Daily Bruin, Software Engineer Intern** October 2021 – Present

* Developing tools to improve user experience and facilitate work in the team.

**UCLA DevX, Software Developer**  October 2021 – Present

* Working on the project, Xlier, to help dreamers to showcase ideas to the world and get invested.

**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