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, China   July 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, China   July 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