Raymond Chau

SOFTWARE ENGINEER

California

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Education

University of California, Berkeley

Berkeley, CA

Bachelor of Science in Electrical Engineering and Computer Sciences. Major GPA: 3.42

Aug. 2017 - May 2021

Work Experience ____

HH Imports

Remote

Software Engineer Intern May 2020 - Aug. 2020

- Implemented an internal **Ruby on Rails** web application that helped the business to handle and visualize important transactions.
- Developed an internal React application to help the business oversee and analyze financial operations, approve purchases and expenditures, and manage employees.

Technical Skills

- · Languages: Python, Java, C, C++, C#, SQL, Javascript, Swift, Ruby on Rails, HTML, CSS
- Technologies: Git, NumPy, Pandas, Docker, Unity 3D, React

Projects_

ActionMap

Politically Informative RESTful Web Application

- · Built a web application that politically informs users by allowing them to view political representatives and events in their area.
- · Implemented a RESTful application programming interface to allows users to share, and view news items in their locality.
- Developed in Ruby on Rails while following the Agile lifecycle and incorporating the model-view-controller design pattern.
- · Utilized Travis CI for code quality tests, syntax reviews, and to validate commits based on custom test cases.
- · Utilized Codecov to measure and increase test coverage of the codebase.

Epidemic Simulator

Simulator for Epidemics

- · Developed an epidemic simulator in Python that allows the user to view the effects of different infection parameters.
- · Utilized NumPy for data simulation and Matplotlib for data visualization.

6-Pack Abs

iOS Fitness Mobile Application

- · Built an iOS mobile application that conveniently, through auditory cues, guides users through an abdominal workout routine.
- Developed fully in Swift and utilized UITableView to display the exercises while following the model-view-controller design pattern.

CalTours

iOS Campus Tour Mobile Application

- Built a campus tour iOS mobile application that gives users information about various points of interest around the Cal campus.
- Developed in **Swift** while storing and encoding the points of interest in **JSON**.
- Utilized PageViewController to display the various points of interest while following the model-view-controller design pattern.

MOOCbase

Relational Database Management System

- Developed a custom relational database management system in Java to better understand the internals of databases.
- Implemented multi granularity locking to support concurrent execution, database recovery in case of crashes, query optimization for faster queries, support for B+ tree indices, and efficient join algorithms.

UnicornBox

Encrypted File Sharing System

- · Developed in Go an end-to-end encrypted file sharing system to allow users to safely and securely share files.
- · Implemented Argon2 asymmetrical key encryption, RSA digital signature keys, and file integrity checks.
- Utilized salting and SHA-256 hashing for safe storage of user passwords.

Honors & Awards