Cheng-Ying (Marvin) Hsin

Mobile: (215) 934-2645 | Email: bdfb1997@berkeley.edu | Website: https://marvinhsin.github.io/portfolio/

EDUCATION

University of California-Berkeley, CA   **Sep 2021 – Dec 2023**
Bachelor Degree in Computer Science – GPA 3.73/4.0   (Graduated)

Foothill College, CA   **Sep 2018 - June 2021**
Associate Degree in Computer Science – GPA 3.95/4.0

Relevant Coursework:
Object-Oriented Design (**proficient in C++**, **Java**, **Python**), Data Structures and Algorithms, Computer Architectures, Software Engineering, Operating Systems, Cloud Computing, Computer Security, AI/ML

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL, Ruby, JavaScript, HTML/CSS, Golang, R, C#, RISC-V
Libraries/Framework: Git, Linux, React, Node.js, Docker, Agile, REST, CI/CD, Spring Boot, Ruby on Rails, Pandas
Certificate: AWS Certified Cloud Practitioner (July 2023)

WORK EXPERIENCE

Global Key Advisors, *San Francisco CA*   **Feb 2024 - Present**
Quantitative Analyst Internship

- Utilized **NLP** and **LLM** to extract and analyze 5,000+ SEC filings, effectively building detailed profiles for target companies with **Pandas**, enhancing market intelligence and facilitating the tracking of insider activities.
- Scraped, cleaned and conducted extensive **Exploratory Data Analysis** on 7,000+ companies' 10-K filings leveraging **Python**, successfully extracting key financial data to inform strategic decision-making processes.
- Built **machine learning** models to predict the success of target pre-IPO companies, analyzing vast datasets from research papers and funding applications, thereby enabling data-driven investment decisions.

RRR Computer Organization, *San Francisco CA*   **July 2019 - Aug 2019**
Software Engineer Internship

- Revamped website layout and architecture, leveraging **HTML, CSS,** and **JavaScript**, resulting in a remarkable 30% increase in average browsing time, enhancing user engagement and satisfaction.
- Integrated leading payment providers such as Stripe and PayPal for secure donation processing, resulting in a 20% growth in donation contributions and improved user experience.
- Architectured and deployed robust **REST APIs** on the backend, tightly integrating them with a **MySQL** database to connect and manage donor information and transactions.

Republic of China Army, *Taiwan*   **July 2020 - Aug 2020, July 2022 - Aug 2022**
Private

- Completed a total of 4-month mandatory military service in Taiwan, fulfilling civic duty and national obligation.

HIGHLIGHTED PROJECTS

Real-Time Political Insights App in Ruby, *UC Berkeley*   **Aug 2023 – Dec 2023**

- Built a dynamic full-stack **Rails** app providing users with real-time insights into political landscapes, leveraging external **API**s such as Google Civic Information, integrated **JavaScript** for interactive rendering.
- Utilized **PostgreSQL** as the database management system, ensuring data integrity and efficient storage.
- Implemented comprehensive test suites using **RSpec** for TDD and **Cucumber** with **Capybara** for BDD, resulting in a 95% test coverage and significant improvement in code quality.

Movie Review App in Java, *Side Project*   **Dec 2023 – Jan 2024**

- Developed a full-stack movie review application with **Spring Boot**, leveraging **React, Bootstrap** for the frontend implementation and **MongoDB** for database management, delivering a feature-rich experience.
- Designed and implemented over 10+ **REST APIs** following best practices, facilitating streamlined data interactions and enhancing the application's overall efficiency in data retrieval and storage.