

Cheng-Ying (Marvin) Hsin

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EDUCATION

University of California-Berkeley, CA

Bachelor Degree in Computer Science – GPA 3.73/4.0

Sep 2021 – Dec 2023

(Graduated)

Foothill College, CA

Associate Degree in Computer Science – GPA 3.95/4.0

Sep 2018 - June 2021

Relevant Coursework:

Object-Oriented Design(**proficient in Python, C++, Java**), 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, Typescript, HTML/CSS, Golang, R, C#, RISC-V

Libraries/Framework: Git, Linux, React, Tailwind CSS, Node.js, Docker, Agile, CI/CD, Spring Boot, Ruby on Rails, Django

Certificate: AWS Certified Cloud Practitioner (July 2023)

WORK EXPERIENCE

RemoteNC Inc., Taipei

Aug 2024 - Present

Software Engineer

- Spearheaded the development of an AI-driven software solution that empowered traditional manufacturers to automate manual processes, saving clients over **40%** in operational costs and boosting order volume by **10%**.
- Built a seamless full-stack application using **Python Django** for the backend and **React v6** with **Tailwind CSS** for the frontend, resulting in enhanced user satisfaction and engagement.
- Deployed advanced **YOLO** and **CLIP** machine learning models to automatically classify mechanical component drawings, and integrated **OpenAI APIs** to streamline the quoting process for manufacturers, reducing manual efforts by **90%** and significantly improving operational efficiency.
- Architected a highly scalable asynchronous image upload pipeline utilizing **Redis**, **Celery**, and **AWS Lambda**, drastically reducing wait times and enhancing user experience through efficient background processing.
- Designed, containerized, and deployed the solution on **AWS EC2** with **Docker**, integrating **Amazon RDS** and **Amazon S3** for data management, achieving **99.9%** uptime and ensuring smooth, uninterrupted operations.

Global Key Advisors, San Francisco CA

Feb 2024 - Present

Quantitative Analyst Internship

- Utilized **NLP** and custom **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**, **bs4** and **Selenium**, successfully extracting key financial data to inform strategic decision-making processes.

RRR Computer Organization, San Francisco CA

July 2019 - Aug 2019

Software Engineer Internship

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

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 Google Civic Information **APIs** in backend, **OAuth2.0** authentication and **PostgreSQL** database for secure database management.
- 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.