




# CHENG-CHIEH (JAY) HUNG

Seattle, Washington

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## Education

**Northeastern University** | GPA: 4.0/4.0

*Master of Science in Computer Science*

Sep. 2024 – May 2026

*Seattle, WA*

**ChengChi University**

*Bachelor of Science in Computer Science*

Sep. 2019 – May 2023

*Taipei, Taiwan*

## Experience

**GoFreight**

Feb 2024 – August 2024

*Software Engineer* | Cloud, Docker, Kubernetes, AWS, PostgreSQL, CI/CD

*Taipei, Taiwan*

- Developed a scalable real-time monitoring system for 200,000+ shipments, using **Python**, **Django**, and **Docker**.
- Redesigned **PostgreSQL** architecture for the monitoring system, accelerating service performance by 80%.
- Implemented distributed load balancing with **Docker** and **Kubernetes**, integrating **AWS EC2** and **S3**, reducing infrastructure costs by 40%.
- Integrated crawlers with **Apache Airflow**, enabling scheduled execution and automatic failure recovery.

**GoFreight**

Jul 2022 – August 2023

*Software Engineer Intern* | Testing, Machine Learning, RESTful APIs

*Taipei, Taiwan*

- Implemented unit tests with **Pytest**, achieving 80% test coverage.
- Led a **Machine Learning** project using historical shipment data to predict ETA, delivering a new feature to clients.
- Implemented features with **Vue**, **REST APIs**, and a **MySQL** database, sharing data metrics with internal teams.

**Appar Technologies**

Sep 2019 – Sep 2020

*Software Engineer Intern* | React, Mobile App Development

*Taipei, Taiwan*

- Developed a cross-platform exam system using **React Native**, enabling seamless user experience across devices.
- Deployed the application on **iOS** and **Android**, serving 500+ students and improving accessibility to digital exams.

## Projects

**Job Board Platform** | React, FastAPI, PostgreSQL, TypeScript, Docker

- Built a modern frontend with **React**, **Vite**, **Tailwind CSS**, and **TypeScript** to support fast, filterable job search.
- Fetched and auto-tagged external job listings, storing structured data in **PostgreSQL**.
- Designed backend endpoints with **FastAPI** and planned **Redis** caching to speed up frequent search queries.

**Authentication System with Secure Key Management** | MERN Stack, TypeScript, Blockchain

- Developed a full-stack authentication system using the **MERN stack** (MongoDB, Express.js, React, Node.js)
- Implemented smart contracts in **TypeScript** to manage user keys and verify authentication on the blockchain.
- Wrote unit tests with Mocha to ensure the reliability and security of authentication logic.

**Web Clipping Chrome Extension** | React, JavaScript, HTML, CSS

- Used **JavaScript** and Chrome APIs to develop an extension that captures web content and sends it to a Django backend, reducing manual data collection time by 50%.
- Built an **HTML** parsing and filtering pipeline in Python to extract structured data and feed internal tools.
- Applied React and custom **CSS** to enhance UI interactions, improving team efficiency by 50%.

## Technical Skills

**Related Courses:** Data Structures, Algorithms, Database Management, Machine Learning, Web Development, Artificial Intelligence, Computer Architecture, Software Methodology, Agile

**Programming Languages:** Python, JavaScript, TypeScript, C++, Java, Go, Solidity, SQL, HTML, CSS

**Frameworks & Libraries:** React, Next.js, Express.js, Vue, Spring Boot

**Cloud & DevOps:** AWS, Microsoft Azure, Docker, Kubernetes, Jenkins

**Services:** PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ

**Machine Learning:** scikit-learn, PyTorch, TensorFlow, XGBoost

**Testing & Tools:** Git, Postman, Pytest, JUnit, Jira, Mocha