Jerry Chung

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EDUCATION

University of Washington Seattle, US
Master of Science in Electrical and Computer Engineering Sep, 2025 – Jun, 2027

National Central University Taoyuan, Taiwan
Bachelor of Science in Computer Science | Overall GPA: 3.86/4.0 Sep, 2020 – Jun, 2024

TECHNICAL SKILLS

- **Programming Languages**: C++, Python, Java, JavaScript, Typescript
- **DevOps/Infra:** Git, Docker, Kubernetes, AWS, CI/CD, Nginx, Jenkins, Linux
- **Web Development:** React, Next.js, Node.js, Django, Flask, SQL, HTML, CSS
- **Languages:** English, Mandarin, Japanese

EXPERIENCES

Computer Arch and System Tech Lab - National Central University May, 2022 – Jun, 2024
Research Assistant

- Achieved **6.25x acceleration of data operation** with implementing algorithm on ReRAM array.
- Applied **compute-in-memory algorithm**, **reducing 50% of data operation**.
- Submitted paper to 2024 IEEE SYMPOSIUM ON VLSI TECHNOLOGY & CIRCUITS.
- Operated **real-time operating system (RTOS)** features on MSP430 **embedded system** microcontroller.
- **Collaborated with TSMC**, the largest semiconductor manufacturer, in searching next generation memory.

PROJECTS

mangoz34.com - Personal Blog Website | TypeScript, React, Next.js, Node.js

- Refactored a traditional JavaScript based personal portfolio vCard into **React based with Next.JS and TypeScript**.
- **Containerized application with docker** and **deployed on AWS** Elastic Beanstalk.

my-ikonoijoy.fun - Music Ranking Webpage | Python, Django, JavaScript, HTML, AWS

- Deployed application on **AWS** EC2 cloud service to propel web app development.
- Designed and built **responsive user interfaces (RWD)** webpage using **Django** library, **HTML**, **CSS**, and **JavaScript**, focusing on usability and cross-browser compatibility.

DevOps and Software Engineering (Course Project) **|** Jenkins, Kubernetes, Docker

- **Automated the CI/CD pipeline**, utilizing **Jenkins**, **Kubernetes**, and **Docker** to implement continuous integration and deployment, significantly enhancing code reliability and streamlining release processes.
- Implemented **OOP (Object-Oriented Programming)** principles and various **design patterns** to develop **scalable** and **maintainable** software systems.

Machine Learning & Data Science (Course Project) **|** Python, NumPy, pandas, Matplotlib

- **Developed** and **trained** various machine learning models, with using neural networks, linear regression, and decision trees, to solve specific problems and achieve high-performance results.
- **Leveraged Python**, **NumPy**, and **pandas** for **data cleaning**, **feature engineering**, and **model evaluation**, with **Matplotlib** for results visualization.

AWARDS

Excellent International Student Scholarship, Japan Student Services Organization 2023
Research Assistant Scholarship, National Central University 2022