Jerry Chung

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EDUCATION

University of Washington Seattle, US
Master of Science in Electrical and Computer Engineering present – 03/2027(expected)

National Central University Taoyuan, Taiwan
Bachelor of Science in Computer Science | Overall GPA: 3.86/4.0 09/2020 – 06/2024

Shibaura Institute of Technology Tokyo, Japan
College of Engineering 04/2023 – 07/2023

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 (TOEFL 106/120), Japanese (JLPT N3), Mandarin (native)
- **Relevant Coursework:** Computer Architecture, Embedded Systems, Real-time Operating Systems

EXPERIENCES

Micron Technology 01/2026 – 05/2026
Industrial Collaboration Program

- Developed a hierarchical chip layout visualization tool with Python.
- Architected a transformation workflow to **convert configuration files into SPICE netlists and Cadence SKILL scripts**, automating the bridge between design specs and physical implementation.
- **Integrated a analysis of power delivery networks (PDN) algorithm into GUI**, enabling the accurate transformation of nested instances.

Computer Architecture and System Lab - National Central University 05/2022 – 06/2024
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.
- Collaborated with TSMC, the largest semiconductor manufacturer, in searching next generation memory.

PROJECTS

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

- Refactored a 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.

AWARDS

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