Chen Guan Xuan

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📷 Brief self-introduction

I am a graduate student currently studying at National Tsing Hua University Department of Computer Science. I have finished my compulsory service in the Army of the Republic of China (Taiwan) and currently looking for a software engineering job. I have accumulated a basic knowledge of computer science through courses, projects and internship during my undergraduate and graduate studies. The area that I interested in computer science is developing efficient software system and integrating machine learning to help overcoming any specific problems that exists in our real life .

🎓 Education

National Tsing Hua University   September 2023 – July 2025
M.S. Computer Science   *Hsinchu, Taiwan*

National Chung Hsing University   September 2018 – July 2022
B.S Computer Science   *Taichung, Taiwan*

📁 Work Experience

Silicon Motion   July 2024 – September 2024
Software Engineer Intern   *Hsinchu, Taiwan*

❯ Develop and maintain FTL simulator script builder
❯ Learning UFS protocol
❯ Assist to create PTL error handling scripts

ASML   July 2022 – September 2022
Software Engineer Intern   *Tainan, Taiwan*

❯ Using python to write testing and automation program helping RD to find Software bug
❯ Assist software automation group develop BDD(Behavior-Driven Development) environment
❯ Learn skills like Sourcetree(git), Testcomplete, VDI, Python

✍ Research Experience

Software Engineering Laboratory   September 2023 – July 2025
lab member   *Hsinchu, Taiwan*

❯ Department of Computer Science, National Tsing Hua University
❯ Research topics such as software testing, code clone detection, commit message generation
❯ Set up and maintain the laboratory's deep learning server

🖮 Other Experience

National Tsing Hua University   January 2024 – July 2024
Teaching Assistant   *Hsinchu, Taiwan*

❯ software engineering courses at National Tsing Hua University Department of Computer Science in 2024.
❯ Main task is designing assignments and assisting professors.
❯ Learn skills like Turnitin, Unit testing, Integration testing, CI/CD, Scrum

🧪 Projects

Parallel C Backend Server

> The Parallel C Backend Server is a high-performance solution for large-scale data processing and concurrent client requests. Written in C, it uses multi-threading and parallel programming to ensure low latency, high throughput, and efficient resource use.Its modular design allows easy customization for database interaction, caching, and request handling. The server is suitable for real-time applications like financial services, gaming, and IoT, offering scalability under high loads with efficient memory management and POSIX threads.Ideal for environments needing performance and reliability in backend systems.

WeatherVue

> WeatherVue is a web application that integrates with the public API provided by the Central Weather Bureau of the Republic of China (Taiwan). Utilizing the data offered by this API, the application employs advanced visualization techniques to enhance the accessibility of complex weather data for users. The project leverages Vue, Bootstrap, and Leaflet technologies, facilitating the rapid and practical development of the web interface.

> **Project Link:** https://jemmy9211.github.io/WeatherVue/

⛲ Course

Relevant Courses from September 2018 to July 2024

> * Algorithm (A)
> * Advanced Compiler (A)
> * Computer Organization (A)
> * Formal Language (A-)
> * Computer Programming (A+)
> * Object-oriented Programming (A+)
> * Digital Image Processing (A)
> * Software Reliability and Testing (A+)
> * Linux Kernel (A+)
> * Data Science (A)

⛲ Club

NCHU Tennis Team
Tfics Programming Club

🔧 Skills

Programming Language C/C++, Python, JavaScript
Framework Vue, Django, Flask
Sport Tennis, Swimming
Talents Violin