

# 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

*M.S. Computer Science*

September 2023 – July 2025

*Hsinchu, Taiwan*

### National Chung Hsing University

*B.S Computer Science*

September 2018 – July 2022

*Taichung, Taiwan*

## Work Experience

### Silicon Motion

*Software Engineer Intern*

July 2024 – September 2024

*Hsinchu, Taiwan*

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

### ASML

*Software Engineer Intern*

July 2022 – September 2022

*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

*lab member*

September 2023 – July 2025

*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

*Teaching Assistant*

January 2024 – July 2024

*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

### ollamacommit

- › ollamacommit is a command-line tool that enhances Git workflows by generating AI-driven commit messages. Using the locally hosted Ollama model, it analyzes code changes and provides concise, context-aware commit messages
- › Automatically generates precise commit messages from Git diffs by leveraging Ollama's open source model hosted locally on localhost, providing on-demand and private AI support with a streamlined, hands-off setup that installs all required dependencies and model files.
- › <https://github.com/jemmy9211/ollamacommit.git>

### 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