# Song Ting Huei
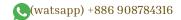
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## Summary

Recent Computer Science graduate with experience in 5+ programming languages, particularly skilled in C++ and Python. Enthusiastic about exploring new technologies and enhancing my learning. Seeking to utilize my programming skills in an entry-level position.

## Projects

### Jobbee                                        2024/2 - 2024-4
- Developed a RESTful API using Node.js, Express, MongoDB and Google Geocode API to automate tasks and improve efficiency
- Implement CRUD operations, authentication and authorization using JSON Web Tokens (JWT).
- Using Geocode API to convert address into geographical coordinates and search for jobs in that coordinate's radius.
- Utilized Postman and other testing tools to ensure the API functionality and performance.
- Technologies used: RESTful API, Node.js, Express, MongoDB, Google Geocoder API, JSON Web Tokens (JWT), Postman.

### Scalable Chat Server                          2023/11-2023/12
- The server listens and accept new connection and is able to handle multiple clients
- Developing functionality to create, join, and manage channels within the IRC server.
- Users could join existing channels or create their own, with the ability to send messages to all users within a specific channel.
- Handling commands such as joining channels, sending messages, leaving channels, and querying information about users and channels.

### RSA encryption & decryption with C++          2023/5 - 2023/7
-> Decryption :
- Implemented the RSA decryption algorithm to extract the original plaintext from a given ciphertext.
- Calculate the modular exponentiation of the input integers, which is necessary for the RSA decryption algorithm.
- calculate the product of two integers modulo another integer, avoiding potential integer overflow issues.
- Tested the program with various input values, including different encryption keys and modulus, to ensure that it correctly decrypts the input message.

->Encryption :
- Uses a look-up table to store the encrypted value of each message character.
- Calculates the encrypted value of each character using RSA.
- Prints the encrypted characters, separated by a comma and a space.

## Education

**Bachelor Science | Computer Science**          *2018-2023*
National Yang Ming Chiao Tung University Hsingchu , Taiwan

## Skills

Languages:
- C/C++
- Python
- Java
- HTML/CSS
- Javascript

Framework:
- numPy
- Pandas
- BeautifulSoup,
- NodeJS

Tools :
- Unix
- Git
- Visual Studio code

Database:
- MongoDB,
- SQL(MySQL)

Field of Interest:
- Semiconducting
- Cybersecurity
- Software Development
- Networking

## Hobbies

- Reading Tech Related Content
- Creating Personal Project
- Solving Coding Problems
- Gaming