# Bao-Hsuan Huang

M.S. in Computer Science, National Tsing Hua University

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#### Education

#### **National Tsing Hua University**

M.S. in Computer Science

Hsinchu City, Taiwan Sept. 2022 - Jun. 2024

#### **National Tsing Hua University**

B.S. in Computer Science

Hsinchu City, Taiwan

Sept. 2018 - Jun. 2022

#### **Keio University**

Exchange Student in Dept. of Science and Technology Oct. 2023 – Feb. 2024

Tokyo, Japan

Skills

Programming (Proficient) C/C++, Python (Familiar) HTML, CSS, JavaScript

**Languages** Mandarin, English

### Master's Thesis Research

### Non-invasive Classification of Alzheimer's Disease using **Gait and Facial Features**

Sept. 2022- now

Proposed a framework for classifying Alzheimer's Disease using gait and facial features extracted from the video data.

- ☐ Four Subtasks: Walking, Sit down and Stand up, Turning, Facial
- □ Data processing, Model training and evaluating, Model explanation, Subtask analysis

## School Projects\_\_\_\_\_

### Real-time Video Conference System with Machine Learning Methods

Feb. 2021 - Feb. 2022

Present a video conference web system with multiple functions between two users.

- ☐ Conference image Instance segmentation, Super resolution
- ☐ Conference sound Speech to Text, Speech Denoising
- ☐ Backend data processing Node.js, Http packet request, WebRTC
- ☐ Front-end web design
- ☐ Utilized: Python, HTML, CSS, JavaScript

Online Chatroom with Firebase	March 2020
Present a web-based chatting system with Firebase, Responsive Web Design functionalities. Demo video can be found <a href="https://www.neegoogle.com/here">here</a> .  User Sign in/Sign up/Log out system Allow to send both text and image Private chatroom (one-on-one) and public(group) chatting space Web animation design Utilized: C++, TypeScript	ı, and key
Game Design with Cocos Creator and Firebase	June 2020
Present a strategy game with Cocos Creator, linked with Firebase, and key g functionalities. Demo video can be found <a href="here">here</a> .  User Sign in/Sign up/Log out system  Strategy for earning in-game currency and combating enemies  Interact with players through mouse input  Dynamic day and night scenes for an immersive experience  Utilized: C++, TypeScript	ame
Toy Box: Hardware Design with FPGA	January 2020
Designed and handmade an interactive toy box which controlled with FPGA b	oard.

□ Control stepper motors' rotational speed and direction of rotation
 □ Toggle the switch to start the game by sending a signal to the board

☐ Utilized: Verilog