

# TZU-YU HUANG (JAMIE)

☎ (856) 484-0431   ✉ tyhuang06@gmail.com   in linkedin.com/in/tyhuang06  
🌐 tyhuang06   📄 tyhuang06.github.io/tyhuang\_v2

## EDUCATION

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### Northeastern University

Boston, MA

*Master of Science in Computer Science (GPA:4.0)*

*Sep. 2021 – Exp. Dec. 2023*

- Selected Coursework: Cloud Computing | Object-Oriented Design | Algorithms

### National Tsing Hwa University

Hsingchu, Taiwan

*Bachelor of Arts in Economics*

*Sep. 2015 – Jun. 2019*

- Teaching Assistant - Introduction to Programming(I)
- Selected Coursework: Operating Systems | Formal Language and Automata | Data Structures | Algorithms | Software Studio | Discrete Mathematics | Linear Algebra | C/C++ Programming

## WORK EXPERIENCE

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### BenQ Corporation

Taipei, Taiwan

Software Engineer Intern

*Aug.2020 - Jul. 2021*

- Collaborated with a team of 15 to deploy and maintain the web app XSign-Manager, a cloud based management software for users to create, schedule, and display signage contents effortlessly
- Built new Vue components for web apps which improved the time on page for users by 2 minutes
- Developed responsive web pages for smart devices with flexbox, Tailwind CSS, and media queries
- Implemented lazy loading for web apps using the Intersection Observer API which improved page loading speed by 200%
- Worked with UI/GUI designers to overhaul web UI which increased customer satisfaction by 10%

## SKILLS

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**Programming Language:** Python, Java, Javascript(ES6+), C/C++, SQL

**Framework/Tools:** Vue.js, React.js, FastAPI, Flask, PostgreSQL, MySQL, TailwindCSS, Git

## PROJECTS

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### Chat App - Full-stack real time chat application

*March 2021*

- Developed real-time communication and notification system with Socket.io
- Built a modern React frontend with functional components, React Hooks and Context API
- Built NodeJS backend with Express and stored user details in encrypted format with MongoDB

### FastAPI Forum App - Full-stack CRUD forum application

*Jan 2021*

- Built backend with Python using FastAPI and secure API endpoints using OAuth2 and JWT
- Implemented RESTful APIs and designed database schema using PostgreSQL
- Developed a modern Vue frontend using Vuex for state management

### Bomberman Game

*April 2019 - June 2019*

- Developed a modern version of a retro maze-based strategy game using Allegro library with over 3,000 lines of C++ code
- Applied modified A\* algorithm for enemy automatic path finding

## EXTRACURRICULAR ACTIVITIES

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### World Vision

Dundgovi, Mongolia

International Volunteer

*July 2016 - August 2016*

- Led a group of 10 members from 3 different countries to assist with local community reconstruction
- Cooperated with local volunteers and interpreted English to Madarin