# TZU CHUN, HSU

New Taipei City, Taiwan

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## EDUCATION

**Zhejiang University**  
Bachelor of Engineering in Computer Science and Technology

09 2016 – 07 2020  
*Hangzhou, China*

- Last two years cumulative GPA: 3.30/4.00

**National Yang Ming Chiao Tung University**  
Master of Science in Computer Science and Engineering

09 2022 – 08 2024 (Expected)  
*Hsinchu, Taiwan*

- First semester GPA: 4.15/4.30

## PROJECTS

**[Chord learning and adversarial framework for symbolic music generation](#)**

04 2018 – 05 2019  
*Hangzhou, China*

- Proposed a chord learning framework for multi-track symbolic music generation based on VAE and GAN.
- Introduced WGAN-GP to solve mode collapse and vanishing gradient problem.

**[Voice Conversion Based on Generative Adversarial Networks](#)**

03 2020 – 05 2020  
*Hangzhou, China*

- Improved StarGAN-VC2 based on multi-speaker non-parallel corpus.
- Introduced WGAN-div, AdaIN layer, and neural vocoder, WaveGlow, for better results.

**Synthetic Data Generation using Conditional Normalizing Flows**

03 2023 – 05 2023  
*Hsinchu, Taiwan*

- Ability to replace original datasets and maintain same data distribution, and also highlight outliers for analysis.
- Built an B/S application to visualize results.

## AWARDS

**CCCC-Mobile Application Innovation Contest**  
First Prize

09 2018  
*Hangzhou, China*

**The 4th "Internet+" Innovation and Entrepreneurship Competition**  
Gold Award

09 2018  
*Hangzhou, China*

**College Students' Innovative Entrepreneurial Training Plan Program (SRTP)**  
Excellent

04 2018 – 05 2019  
*Hangzhou, China*

## EXPERIENCE

**The University of British Columbia Vancouver Summer Program**

07 2019 – 08 2019  
*Vancouver, Canada*

- Included 2 courses, "Algorithms and the World Wide Web" and "Building Modern Web Applications".
- Collaborated with my teammates to complete our projects as team leader.

## SKILLS

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|---|---|
| **Languages** | Python, Java, C, JavaScript |
| **Technologies/Frameworks** | PyTorch, Flask, Spring Boot, Vue.js, Git, SQL, MongoDB |