

TSUNG-HSUAN HSIEH

github.com/vincentthh35 www.vincentthh35.com [✉ vincentthh35@gmail.com](mailto:vincentthh35@gmail.com)

[in linkedin.com/in/vincentthh](https://www.linkedin.com/in/vincentthh) [☎ \(+886\) 903-218-706](tel:+886903218706) [📍 Taipei, Taiwan](https://www.google.com/maps/place/Taipei,+Taiwan)

EDUCATION

National Taiwan University, Taiwan

September 2018 - June 2022

Bachelor of Computer Science and Information Engineering

- Overall GPA 4.06, Ranking Top 20%

TECHNICAL SKILLS

Languages/Frameworks: Python, C/C++, HTML, CSS, JavaScript, Django, React.JS, Node.JS, Bash Shell, PyTorch

Skillset: BackEnd, Machine Learning, Computer Vision, FrontEnd, Version Control (Git), Linux

WORK EXPERIENCE

HTC, Taipei

June 2021 - Jan 2022

Software Engineer Intern, Website Team

- Maintained production websites that is mainly written in Django and React.JS.
- Developed automation testing tool which increases the speed of testing by 300%.
- Developed revision system for editors to recover previous version of contents.
- Developed URL scanning tool to help inspect whether a specific link appears in any webpage.

MixerBox, Taipei

Feb 2022 - Now

Software Engineer

- Develop Chrome Extension application written in React, TypeScript.

SCHOOL EXPERIENCE

Algorithm Design and Analysis Course (required course of CSIE department)

September 2021 - Jan 2022

Teaching Assistant

- Designed and helped revise homework problems: Mainly related with graph.
- Held weekly TA hours: Help 6+ students (per week) clarify their ideas on homework and programming assignments.

Multimedia indexing, Retrieval, and Analysis Lab (MiRA), NTU

February 2021 - Now

Research Assistant

- Interested in implicit-function-based 3D volume rendering and Neural Radiance Field (NeRF).

PROJECTS

[Face Recognition on Various Loss Functions](#)

Built with PyTorch

- Trained and evaluated by different loss functions (e.g. Cosine Loss, Cross Entropy Loss).
- Experiments on different optimization method (Annealing training).

[Poem and Music Browser](#)

Built with React.JS, Flask

- Web application: Recommend a Chinese pop song relevant to the given text input, e.g. poems, paragraphs.
- User can enjoy the recommended song and read the input paragraph with web interface.

Sport Team System (Private Repository)

Built with React.JS, Node.JS

- A system that helps sport team administrators arrange regular training and keep track of players' attendance.
- Features: Login/Logout, Subscription (via GraphQL), Training Calendar, RWD, Light/Dark Theme Toggle, Conditional FrontEnd Routing, Administrator Privileges

[Few-Shot Learning and Domain Adaptation](#)

Built with PyTorch

- Few shot learning and cross domain learning.
- Extended and further modified the idea of *Deep Subspace Network*.
- Experiments on different training methods (e.g. different order of training episodes).