

WEI-HAN (BRIAN) WANG

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Education

M.S. in Computer Science, National Taiwan University

- Network Database Lab, Advisor: Prof. Ming-Syan Chen
- GPA: 4.21
- Research: Deep Learning; Deepfake Detection

Sep 2021 – present

B.S. in Chemical Engineering, National Taiwan University

- GPA: 3.99

Sep 2017 – Jul 2021

Work Experience

Software Engineer Intern, Yahoo! - Search team

- Developed recommendation algorithm for tourist attraction based on article.
- Built RESTful APIs for recommendation service.

Jul 2022 – Aug 2022

Software Engineer Intern, Nexuni - Robot team

- Built full stack system for robot management independently.
- Integrated deep learning model (object detection & tracking) for patrol robot.
- Wrote algorithms for surveillance cameras to count people flow.

Mar 2022 – Jun 2022

Algorithm Developer Intern, Neurobit Technologies

- Conducted Research and Development on Near-eye Gaze Estimation, replacing their former model and improving the model in real-world data with custom data augmentation. Reduce 80% in errors.
- Data labeling and automation. Reduce work time by 70%

Sep 2021 – Jan 2022

Course Projects

Minimal ORM for Rust

- Built a minimal ORM for Rust programming language, supporting basic SQL operation.

May 2023 – Jun 2023

Linux system software design

- Implemented rootkit, a malicious LKM supporting hide/unhide LKM, masquerading process name, and hook/unhook system call
- Implemented page table hacking by adding system call to expose target process' page table and remapped it to malicious process' userspace, allowing attackers to do code injection and virtual address space inspection.

Mar 2022 – May 2022

Skull fracture detection

- Implemented a object detection and classification deep learning model to identify skull fracture and localize the fracture region.
- Achieve 89% accuracy in case-level; 0.65 in F1 score.

Jan 2022 – Feb 2022

NTU Food Bank

- Built a website for people giving away or taking excess foods and drinks.

Jan 2022 – Feb 2022

Awards

Deep Learning for Computer Vision final challenge: Skull fracture detection,

Deep01

Rank 4 / 12

2022

Academic Year Presidential Award, National Taiwan University

Rank 5 / 110, GPA 4.23

2019

Skills

C++ | Python | Rust | Go | SQL | Git | Deep learning | Backend