

WEI-HAN (BRIAN) WANG

📍 Taiwan ✉ brianw0924@gmail.com ☎ +886 956806608 in brianw0924 🔄 brianw0924

Education

M.S. in Computer Science, National Taiwan University

Sep 2021 – present

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

B.S. in Chemical Engineering, National Taiwan University

Sep 2017 – Jul 2021

- GPA: 3.99

Skills

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

Work Experience

Software Engineer Intern, Yahoo! - Search team

Jul 2022 – Aug 2022

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

Software Engineer Intern, Nexuni - Robot team

Mar 2022 – Jun 2022

- 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.

Algorithm Developer Intern, Neurobit Technologies

Sep 2021 – Jan 2022

- 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%

Course Projects

Minimal ORM for Rust

May 2023 – Jun 2023

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

Linux system software design

Mar 2022 – May 2022

- 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.

Skull fracture detection

Jan 2022 – Feb 2022

- 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.

NTU Food Bank

Jan 2022 – Feb 2022

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

Awards

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

2022

Deep01

Rank 4 / 12

Academic Year Presidential Award, National Taiwan University

2019

Rank 5 / 110, GPA 4.23