

WEI-HAN (BRIAN) WANG

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Education

M.S. in Computer Science , <i>National Taiwan University</i> <ul style="list-style-type: none">• Network Database Lab, Advisor: Prof. Ming-Syan Chen• GPA: 4.21• Research: Deep Learning; Deepfake Detection	Sep 2021 – present
B.S. in Chemical Engineering , <i>National Taiwan University</i> <ul style="list-style-type: none">• GPA: 3.99	Sep 2017 – Jul 2021

Skills

Python (PyTorch, FastAPI) | **C++** | **Golang** (Gin) | **Rust** | **JavaScript** (React, Node.js)
Database (MySQL, PostgreSQL, MongoDB, GraphQL, SQLite) | **Others** (Git, Linux, Jira, Docker)

Work Experience

Software Engineer Intern , <i>Yahoo! - Search team</i> <ul style="list-style-type: none">• Developed recommendation algorithm for tourist attraction based on article.• Built RESTful APIs for recommendation service.• Skills & Tools: <i>Python, NLP, FastAPI, OpenStack</i>	Jul 2022 – Aug 2022
Software Engineer Intern , <i>Nexuni - Robot team</i> <ul style="list-style-type: none">• Built full-stack system and integrated deep learning model for security robots.• Implemented algorithms for object tracking, robots road crossing, people flow counting.• Skills & Tools: <i>Python, PyTorch, Docker, Postman, PostgreSQL</i>	Mar 2022 – Jun 2022
Algorithm Developer Intern , <i>Neurobit Technologies</i> <ul style="list-style-type: none">• 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%• Skills & Tools: <i>Python, PyTorch</i>	Sep 2021 – Jan 2022

Projects

Linux system software design <ul style="list-style-type: none">• 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.• Skills & Tools: <i>C, Linux</i>	Mar 2022 – May 2022
Skull fracture detection <ul style="list-style-type: none">• 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.• Skills & Tools: <i>Python, PyTorch</i>	Jan 2022 – Feb 2022
NTU Food Bank <ul style="list-style-type: none">• Built a website for people giving away or taking excess foods and drinks.• Skills & Tools: <i>React, GraphQL, MongoDB, Heroku</i>	Jan 2022 – Feb 2022

Awards

Deep Learning for Computer Vision final challenge: Skull fracture detection , <i>Deep01</i> Rank 4 / 12	2022
Academic Year Presidential Award , <i>National Taiwan University</i> Rank 5 / 110, GPA 4.23	2019