

# Uzen Huang

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Computer Science student exploring new platforms of computation

## Internship

### Eccom HK

July 2024 — Aug 2024 Hong Kong, CN

- Eccom HK is a leading networking solutions provider, serving both mainland and international clients.
- Configured and troubleshot Cisco and Huawei routers, as well as FortiNet firewalls.
  - Gained foundational knowledge in networking through CCNA and HCIA materials.
  - Participated in a bank office relocation project with logistics and onsite deployment.

### Tencent Security Xuanwu Lab

Jul 2023 — Aug 2023 Beijing, CN

- Researched at Xuanwu Lab, a cybersecurity lab focused on identifying the potential vulnerabilities of tomorrow.
- Worked on finetuning a Large Language Model (LLM) for general security tasks such as vulnerability analysis
  - Researched attack and defense methods for LLM models on security threats such as prompt injection and prompt leaking
  - Developed a LLM powered group chat backend in python as a target for security research

## Experiences

### Tencent Spark Program

2021 — 2023 Shenzhen/Beijing, CN

- Tencent Spark Program is a selective, hands-on summer camp that provides technical experiences to high school students. The yearly event is week long, hosted over summer break.
- Participated in Tencent Spark Program on the cyber security path as a student in 2021
  - Joined as a peer mentors in 2022 for the cyber security path, and a student for the AI Vision path
  - Lead fellow peer mentors to organize the AI Security path in 2023

### DEF CON CTF 2023

P1G BuT S4D

Aug 2023 Remote

- DEF CON CTF is an internationally renowned Capture The Flag (cybersecurity competition) event where selected teams participate over 3 days to solve difficult puzzles.
- Participated in [DEF CON CTF 2023](#) as a member of [P1G BuT S4D](#)
  - Worked on AI specific challenges

### Caltech Hackathon 2024

Apr 2024 Remote

- Participated and won the “Caltech Hackathon 2024” Beginner track.
- Developed [VitaPredict](#) with a team of 4
  - a Python based web app that predicts risk of skin cancer based on a self trained model

## Education

### Higher Level

University of Wisconsin Madison

Sep 2022 — May 2026 Wisconsin, US

- Sophomore student working towards a B.S in Computer Science (In Progress).
- Cumulative GPA of 3.7/4.0

## Skills

- Experienced with Linux system administration
- Experienced with Docker, Proxmox, Caddy, Wireguard, Tailscale
- Familiar with Python, Go, Java, Bash, C
- Familiar with common Unix tools such as Vim, SSH, Grep, Tmux, etc.
- Novice in databases such as MongoDB, Sqlite, and Cassandra

## Projects

### Homelab

- Hosted various VMs and containers across geological regions on cloud services and bare metal
- Adept at storage technology with RAID, ZFS, and SMB
- Familiar with Ubuntu and RHEL based operating systems
- Experienced with networking, reverse proxying, remote accessing services via Wireguard, Tailscale, and Caddy
- Managed backup and recovery of services with snapshot management via Proxmox Backup Server and Restic with s3 buckets

### Mangascribe

- Work in progress manager for manga written in Go
- Supports expansion to multiple difference sources for download APIs
- Uses Gorm (ORM) and Sqlite for storing metadata in database
- Leverages Gin for a RESTful API endpoint
- Employs API keys and session tokens for authentication

### Keyboard Design

- Designed and manufactured [MacroCat](#), a 3D printed macropad
- Case designed using OpenScad, a 3D modeling programming language
- Manufactured and soldered [crkbd](#) with ZMK to support bluetooth

## Interests

- NeoVim/Exploring different flavors of Linux ([dotfiles](#))
- Cyber Security and Natural Language Processing
- Hypervisors and Containers
- Networking
- Computer hardware and building systems

## Languages

- Native speaker of English and Chinese
- Learning Japanese and French