Steven Chen

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EDUCATION

The University of Texas at Austin, Austin, TX May 2026

Bachelor of Science in Electrical and Computer Engineering, GPA 3.8

Relevant Coursework:

Software Design and Implementation, Embedded Systems, Circuit Theory

TECHNICAL EXPERIENCE

Independent Learning, Austin, TX Aug 2018 - Present

Homelab

- Obtained experience using Linux and Windows
- Hosted services such as Git, Jellyfin, LDAP, Bitwarden, and Nextcloud for personal use
- Learned to utilize virtual machines, containers, and networked storage to separate services and allow for easier setup and troubleshooting
- Segmented network in to multiple VLANs with different ACLs using PfSense and TP-Link Omada's SDN

CCNA (Expected 2023)

- Learned fundamentals of networking and security
- Exposed to automation using software like Anisble, Puppet, and Chef
- Comfortable using Cisco CLI to configure network devices

PROJECTS

- **Keep Austin Hacking** – Hosted the main website for the hackathon along with setting up a code submission and testing platform using Google Cloud platform.
- **Reddit r/Place Bot** – Wrote scripts that automatically created and verified Reddit accounts to place pixels in r/Place using Selenium, Google Mail API, and Multithreading
- **Image Scraper Discord Bot** – Wrote different iterations of an image scraper bot in Python, used Selenium at first but later iterations used Beautiful Soup
- **Personal Website** – Built a personal portfolio website using HTML and Bootstrap 5, hosted locally using Nginx and served through Cloudflare
- **Jellyfin + LXC Container** – Hosted an instance of Jellyfin in a LXC container which utilized GPU passthrough to enable hardware transcoding for my personal media
- **Space Invaders** – Recreated Space Invaders for the embedded systems course, wrote the game in C++ and ran the game on a Cortex M microcontroller with a custom designed PCB
- **Batch Renaming** – Python script created with the Tk library to rename shows for my media library in Python. Basic functionality was being able to rename each file with a season and an episode number.
- **Blip** – Implemented a basic interpreted language in C/C++ that was able to parse postfix notation and had the ability to store variables
- **Password Manager** – Written in Python, using Tk as a GUI and SQLite to manage multiple user authentication and storage of passwords.

TECHNICAL SKILLS

- Familiar with C, C++, Python, ARM Assembly, Docker Compose, Bash, HTML
- Experience with Proxmox Virtual Environment, TrueNAS Core/Scale, PfSense, Omada SDN

WORK EXPERIENCE

Wendy's & Walmart May 2021 – Aug 2022

- *Customer Service*