

Dalton Bailey

Chico, California

Education

Computer Science

Bachelor's Degree (In Progress)

August 2017 – Present

CSU Chico, CA

Work Experience

PlumbingSupply.com

Web Developer

November 2020 – July 2021

Chico, CA

- Worked full time as a full stack junior web developer.
- Developed on a LEMP stack I initialized from an empty OS
- Used source control software like GIT frequently
- Wrote multiple scripts in bash, php, and java to assist in maintaining the site
- Helped install a new development server, in server rack
- Fixed many bugs in the companies Magento installation

Extracurricular

IEEE

Social Officer

November 2020 – July 2021

CSU Chico, CA

- Hosted official IEEE club Minecraft server on one of my home servers
- Planned social events for club members
- Managed and maintained planned club social events
- Scheduled virtual game nights for club members during the COVID-19 pandemic

Personal Projects

Networking

Home network administrator — Accessible at: <https://dash.billbert.co/>

November 2019 – Present

Chico, CA

- Designed an intricate home network to help improve productivity and provide entertainment.
- All web-services are accessible at my personal domain; which is getting DNS resolutions via Cloudflare.
- **LAN File Share** | *Samba* | NAS for my LAN; which other services can use as a shared file system
- **LAN DNS Server** | *PiHole & Unbound* | DNS for all devices on home network's LAN
- **Personal repository** | *Gitea & Mysql* | Private personal source controlled repository
- **Personal Blog** | *Django, Mysql, & Redis* | Platform for me to share tech projects & tutorials

Coding

Various Projects

August 2017 – Present

Chico, CA

- **Discord Bot** | *Python & Discord API* | Provides administration and social utilities for my discord server
- **Page-Rank** | *C++ & Open-MPI* | Parallelized *implementation* of googles original page-rank algorithm
- **Text-Based video game** | *C++* | Created a 1980's style text based video game using linked lists
- **Neural Networks** | *C++ & Python* | Created ANNs and CNNs using Python and C++ respectively.
- **ID3 Decision Tree** | *C++* | Created an ID3 decision tree capable of making decisions using data from a .csv file

Skills

Tech Related

- **Programming** | *C, C++, Python, Rust, HTML, PHP, JavaScript, CSS, and Bash*
- **OS Knowledge** | *Windows, Linux*
- **Virtualization** | *Docker, Proxmox, QEMU*
- **Networking** | *DNS, DHCP, HTTP, IP, TCP, UDP, ARP*