**Dalton Bailey**

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**Education**

**Computer Science August 2017 – Present**

*Bachelor’s Degree (In Progress) CSU Chico, CA*

**Work Experience**

**PlumbingSupply.com November 2020 – July 2021**

*Web Developer Chico, CA*

* Worked full time as a full stack junior web developer.
* Developed on a LEMP(Linux, NGINX, Mysql, Php) stack I initialized from a clean OS
* Used source control software like GIT on the job daily
* 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 e Commerce installation

**Extracurricular**

**IEEE November 2020 – July 2021**

*Social Officer 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 November 2019 – Present**

*Home network administrator — Accessible at: https://dash.billbert.co/ 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 August 2017 – Present**

*Proudest Projects 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 treecapable of making decisions using data from a .csv file

**Skill Summary**

**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*