

Alan Barnett

PERSONAL DATA

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EDUCATION

42 Silicon Valley – *Programming* APRIL 2018–PRESENT

- Completed various projects re-coding important parts of the C Standard Library
- Experienced programming in C/C++, BASH and ASM
- Developed interpersonal skills through group work and peer corrections
- Formed solid time management and motivational skills by having to create my own schedule and work with project deadlines

Ohio University – *Computer Science* AUGUST 2015–MARCH 2017

- Completed 2 years of coursework in Computer Science, Math, and Physics
- Learned Object Oriented Programming through C++ and Java
- Studied Math through Calculus 2 and Discrete Math

SKILLS

Computer and Technical:

- Proficient in Microsoft Office, Word, Excel, PowerPoint, and L^AT_EX
- Fast and accurate typist (100-120 WPM, 95%+ accuracy)
- Computer programming (C/C++, BASH, PYTHON, JAVA, ASM)
- Purchased parts for and built a desktop computer
- Repaired and modified workplace computers, from replacing internal devices such as wifi cards, RAM, and storage, to flashing custom firmware onto BIOS chips
- Experienced in troubleshooting and solving computer issues in a workplace environment
- Maintained a home server for multiple users

Operating Systems:

- Moderate experience in macOS, Windows (7, 8.1, 10), and UNIX (Solaris, OpenBSD)
- Moderate to advanced experience in installing and maintaining a Linux system
- Compiled my own Linux From Scratch by writing a simple package manager in Bash
- Confident in software deployment, configuration, and testing
- Fluent in command line use and navigation in Linux

WORK EXPERIENCE

Cibic, startup – *Systems Administrator/Developer Operations* APRIL–JUNE 2020

- Learned how to use AWS and spin up a server for the backend in my first weekend
- Deployed and administered a personalized, lightweight linux installation on work laptops
- Coached the team on how to use essential programs like git, ssh, and vim
- Established a local network for ssh access to a fast dev testing server

Ohio University, College of Business – *Student SysAdmin* SUMMER 2017

- Collaborated with the IT Manager to reconstruct six computer labs (200 machines), including networking, bandwidth testing, image creation and management, and hardware and software deployment and troubleshooting
- Used tools like Clonezilla to deploy an image to multiple computer labs
- Assisted teachers and students at the helpdesk with computer issues

My name is Alan, and I have been fascinated with computers for most of my life. I got my first laptop when I was 12, and broke it when I was 13 by setting and then incorrectly removing a BIOS password, which cost me a trip to a computer repair store - my first interaction with such a place. I was amazed at the idea of people fixing or modifying computers, and the idea stuck. Since then I've never been back, electing to fix the problem myself. Some time shortly after, I figured out what exactly NOT to uninstall by removing my Atheros network driver. I fixed it easily, because I knew about the Windows system restore functionality (probably from previous mistakes in a similar vein). This victory only planted further how much I wanted to keep trying and learning things. At 14 I got a laptop with a disc drive, and I started testing out Linux distributions in my spare time. Back when it was common to burn them to discs, I had a 10-cd case all loaded up with different distros. My parents and grandparents started to notice my abilities with computers and would ask for help, anything from printer connectivity to simply using a web browser. I became intimately familiar with what the control panel had to offer - I was absolutely obsessed with settings and configuration.

Now that I'm older, I have had more opportunities for bigger things. I built my first desktop computer in 2015 out of some friends' old parts, and once I saved up a bit more I started replacing them with newer and more powerful components. I collect and restore old Thinkpads by giving them SSD's and more ram, sometimes also getting a new keyboard that hasn't worn down so much. On my personal favorite laptop, an x200, I have flashed a custom BIOS onto the chip with a raspberry pi to make it boot faster. Funny enough, before I did this I had to remove the supervisor password locking the old BIOS so I could update the embedded controller firmware. I did this by bridging two pins on the little BIOS chip at a perfect timing - this is probably one of my favorite accomplishments as it wraps full circle with my first major screw up. I have a soldering iron and a decent tool kit which I have used for repairs, like when my friend broke their power button and I replaced the power board.

I would love to have the opportunity to use my experience working on computers to assist you in your store. It would be my absolute pleasure to use that experience to further my own abilities, and use them in a productive environment. I hope you consider my application, and I appreciate your time in reading this. Have a wonderful day, and I hope to hear back from you!