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This CV probably does not read the way in which you're accustomed. If you read from the bottom up, it is an autobiographical account of my career. The skills sections that appear under each blurb are the highlights of what I picked up during that particular assignment, not the sum total of what I know.

In short, I'm a problem solver. I like to take on new things and master them. I don't limit myself to a single technology, or to a single way of thinking. I'll find out what's broken and fix it, or I'll help you find a solution to a problem you can't even quite define.

W2 History

2/2016 - Present / Apt Platform Technologies, Inc. / Co-owner, CTO

After a long time in the corporate world, a partner and I decided to venture out on our own. Most of my recent and current work has been building custom software and websites (mostly using Python and React) and providing managed services and solutions. I have also done several installations of campus networks and security solutions. I continue to do an unreasonable number of API integrations allowing clients to move data between disparate systems. Much of my work is built using Docker. That includes using and creating docker-compose and creating Dockerfiles (*please don't judge me for really enjoying creating the smallest most function Docker image possible*.) I've played with k8s just enough to know that I want to spend more time digging deep. I miss the old Docker Swarm functionality. With every sentence I write here, I remember how many Things I've used that never made it to this CV.

- Python 2/3
 - The fancy new asycio with coroutines
 - FastAPI / alembic / Pydantic / SQLAlchemy
 - Django
 - pyenv / pipenv / poetry
 - boto3 for AWS
- Javascript / Frontend
 - ReactJS
 - jQuery
- Public Cloud
 - Amazon Web Services
 - DigitalOcean
- Docker (much experience)
 - Everything at <https://hub.docker.com/orgs/aptplatforms> is mine
- Kubernetes (limited practical experience)
- Augeas (and I pronounce it almost like *obvious*)

10/2012 - 2/2016 / Cisco Systems, Inc. / Software Engineer, DNCS Platform

This position defined much of my career. The "Platform" responsibility is more systems integration and automation than software engineer. I'm responsible for making our products installable by "a homeless person with no computer experience". I've learned to write scripts of all types: Bourne shell, Korn shell, BASH, Perl, Python, Ruby, etc. The product was initially shipped on Sun SPARC hardware. From there, we worked on recompiling to SunOS i386 and installing it on VMware. My job is creating the glue required to make upgrading versions happen with as little downtime as possible. Moving a running application stack from SunOS SPARC to SunOS i386 under VMware, while migrating a half terabyte Informix database requires a lot of tools and an ability to make things work together that were never designed to.

- Cisco
 - Nexus 5000/7000
 - Nexus 1000v
 - UCS Manager
- VMware
 - ESXi (through 5.5)
 - vSphere (through 5.5)
 - PowerCLI
- Linux
 - RedHat Kickstart
 - Cobbler
 - Puppet
 - OpenStack
 - MySQL
- Solaris administration
 - Jumpstart
 - Openboot
 - ZFS
- Oracle RBMS
- Informix Online Server

02/2011 - 10/2012 / Cisco Systems, Inc. / DevOps, Femtocell

I was recruited out of DNCS Platform to help automate the development infrastructure for the Femtocell project. This involved installation and management of the continuous integration environment and converting the builds from ant and custom "build.sh" scripts into Maven, with full artifact release integration with Artifactory. This one was a lot of fun right up until the project was moved offshore to reduce OpEx.

- Maven
- ant
- Jenkins
- Trac
- Artifactory
- Sonatype Nexus
- Git
- Gerrit
- Sonar
- Derby
- Groovy
- Veritas VxFS

03/2005 - 02/2011 / Scientific-Atlanta, a Cisco Company / Software Engineer, DNCS Platform

See 2012-10 - Current section above. Same job, just split around a brief foray into the world of cell phone micro-towers.

07/2000 - 03/2005 / *Scientific-Atlanta, Inc.* / Network Engineer, SciCare Software Services

This position started as a "Level 3" support engineer. Duties were initially limited to resolving problems with our application stack running on Solaris. They very soon included maintaining site-to-site VPN connectivity to customer locations, creating a website to provide security for the VPN connections, and other development duties. It went on to be a small application development group, doing a great deal of PHP websites that we used to bring profit to a pure cost center.

- PHP
- Cisco IOS

06/1999 - 07/2000 / *West Building Materials* / Developer, IT Specialist

West Building Materials was a 100 year old building materials store that didn't survive the market incursion by Home Depot and Lowe's. My responsibilities here were centered around rollout of a new point of sale system to 30+ store locations in the US southeast. I also wrote many of the custom reports and applications (Progress 4GL again) that replaced the outgoing POS system. This job also kickstarted my desire to automate everything. Executing the rollout of the stores was started by another employee who didn't take the time to make all of the servers an easily maintainable homogenous environment — every one was a little different. I fixed that with a couple of carefully crafted backup tapes and good old Lone-Tar.

- SCO UnixWare 7
- WAN concepts and hardware (T1, CSU/DSU, Frame Relay)
- Token Ring Networking
- IBM OS/400 and AS/400

05/1996 - 05/1999 / *Health Data, Inc.* / Lead Developer

Health Data is where I cut my technical teeth. This was a data-entry job that turned into a software engineering role and escalated from there. I started with maintaining and improving an aging data entry application (Progress 4GL), while learning the language. From there I moved into developing drug use review software and eventually a DICOM and HL7 compliant medical imaging application suite. My small team of 2 developers built applications in Progress 4GL and Visual Basic to provide a workstation to scan X-ray films, receive a feed from the CT, MRI, and ultrasound machines and display them in a Windows application that was located both inside the hospital and at the home of the radiologist on call. I also rebuilt and managed the building LAN, built and maintained all of the Windows workstations, the SCO OpenServer 5 Progress database servers, and the Linux mail/web/DNS gateway.

- Progress 4GL
- Visual Basic
- Database Normalization/Optimization
- EIA-568 Wiring Standards
- DICOM
- HL7
- Wavelet Transforms
- SCO OpenServer 5
- Linux (Slackware, RedHat, Debian)
- Basics of IP Networking

1099 History

06/1999 - Current / *Krengel Technology*

I had the excellent fortune while at West Building Materials to meet an enterprising young consultant who would help shape my career. Quentin Krengel helped me develop a real passion for digging deeply into a problem and creating a solution. Since that meeting, I have consulted on many projects with him and his company.

- Built websites on hosted hardware before The Cloud was new.
- Migrated those websites to AWS EC2 after The Cloud came to be.
- Helped a customer get their indoor air quality monitoring device off the ground. Learned a lot about uCLinux™ and embedded devices. Wrote some PHP and Lua and a tiny web templating engine in awk.
- Many more small projects, and hopefully many more to come.

Official Education

Auburn University -- BSBA, Management Information Systems (1999)