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Summary

I am a platform and MLOps engineer and programming generalist. My focus on tool building allows me to automate a vast array of platform operations and functions, but I also know the potential value of embracing ready-made solutions. I have had years of experience in fast-growing environments using kubernetes, configuration management, service-discovery, virtualization, containerization, cloud platforms, SQL and no-sql datastores, service health monitoring distributed logging, and much more to achieve mission critical platform objectives such as availability and performance. I have experience as both a senior engineer and a program manager and can relate to executive management, developers, product teams and customers.

Cloud Platforms: AWS, Azure, GCP

CI/CD: GitHub Actions, GitLab, ArgoCD

Configuration Management: Terraform, Chef, puppet

Performance/Health Monitoring: Grafana, DataDog, Nagios (Icinga), NewRelic, Boundary, Pingdom, Thousandeyes

Programming/Scripting Languages: Go-lang, Python, Ruby, JavaScript (client-side and node), C.

Compliance Experience: HIPAA, SOC 2, PCI DDS, GDPR

Linux-related skills: Hardware and drivers, bash and bash scripting, ssh, NGINX, apache, git (and github), rbenv, disk virtualization and RAID, tmux, bundler, ssh, ntp, grub, NFS, cifs, DNS, sed/awk.

Web-Specific skills: CSS, HTML5, client-side JavaScript, jQuery, HTTP

Virtualization: Vmware, Xen, qemu, AWS, Azure

Productivity/Office skills: Slack, Github, JIRA, Confluence, G Suite.

Other Abilities: Extensive experience with metal (non-VM) servers

Education

Ira A. School of Engineering at Arizona State University ● Tempe, AZ
(Unfinished) Bachelor of Science in Bioengineering

Professional Experience

April 2023 - August 2025

AJR Industrial, Inc.

Chandler, AZ

Consultant

Responsibilities

- Build and deploy construction component lifecycle tracking system
- Microservices architecture with AWS Fargate
- DocumentDB backend
- Cross-region failover with Route53 health checks
- CI/CD with Gitlab
- OICD-based IAM role federation
- DocumentDB automated backups
- TwinGate zero-trust VPN
- Assist developers with docker builds
- Deploy and administer

April 2022 - March 2023

Syncretic Capital

New York, NY

Site Reliability Engineer

Responsibilities

- Deploy Kubernetes compute in AWS EC2 for FreqTrade bots and time-series data storage, with sense of cost in mind
- Continuous deployment with ArgoCD
- Set up S3 buckets with security policies and object lifecycle policies
- Configuration management with terraform for all AWS components, including EC2, S3, ecr and kinesis
- Develop cryptocurrency wallet key storage vault using AWS KMS, including gtk3/X11 user interface
- Administer Windows 11 laptops for traders
- Deploy and administer AWS WorkSpaces for trading bot developers, including Python dev environments which incorporated poetry module management
- Architect and configure VPC networking scheme
- Connect European and US based VPCs via peering and VPN tunnel
- Backup with AMIs

June 2017 - January 2022

Mnemo Health, Inc

New York, NY
DevOps Engineer
Responsibilities

- Containerization with Kubernetes and EKS
- Create tools to measure and report accuracy of glucometer OCR. (RoR and vis.js)
- Architect and maintain Amazon infrastructure (EC2, S3, IAM)
- Build out physician web portal (RoR)
- Design tools to assist with load testing
- Integrate RoR app with S3 backend for photo upload and storage
- Postgres administration and backup
- Support code deploy process with git and Heroku

November 2013 – March 2017

Zendesk, Inc.
San Francisco, CA
DevOps Engineer / Capacity Planning Program Manager

Responsibilities

- Collaborate with team over Slack and Confluence. Tracked work with Jira.
- Statsd scripting to report customer metrics to DataDog.
- Administered Resque job queues with redis backend (clustered).
- Setup Network Operations Control center in Manila, Philippines (trained all new engineers).
- Setup Network Operations Control center in Madison, WI (trained all new engineers).
- Assisted with hiring process of new engineers.
- Provided guidance to compliance teams to assist with PCI, HIPAA
- MySQL database administration.
- Systems monitoring and alerting with Nagios (Icinga).
- Performance monitoring with DataDog.
- Stewardship of Ruby-on-Rails application.
- Virtualization with Xen.
- Configuration management with Chef (using Enterprise Chef server).
- Designed and implemented anti-virus scanning concept with AWS SQS EC2 and Clam A/V
- AWS: EC2, S3 (including composing policies), SQS, Route53, CloudFront,
- ElasticSearch administration (on our own servers as well as AWS ElasticSearch)
- Containerization with Docker
- Consul service discovery.
- MongoDB (3 node replica-sets) administration.
- On-call duty for production environment (over 2500 nodes under management in 8 data centers)
- Lead process to migrate customer accounts from Co-Lo's to AWS platform

- Promoted to Capacity Planning Program Manager
- Build tools (written in Go) to assist with data collection, processing and display
- Design tools to assist with load testing
- Meet with various engineering teams to facilitate discussion of capacity metrics, key measures, build consensus on cadence of test, etc.
- Hold periodic meetings to make decisions with regard to new hardware procurements by product and development teams
- Design and implement organization-wide processes to ensure consistent capacity planning

March 2011 – October 2013

ourbucketlist, Inc.

Scottsdale, AZ

Lead DevOps Engineer

Responsibilities

- Xen virtualization
- Automate release processes with git and one-off perl scripts.
- Worked with Amazon's EC2 and API tools, including automated launch of new linux servers using "user-data" feature and Puppet.
- Experience using Puppet in both standalone and client-server arrangements.
- Setup and configured monitoring via Nagios with custom scripts including monitoring of Starling queues.
- Automate release processes with git and one-off perl scripts.
- Built and configured Ubuntu Linux servers and utilized Launchpad PPA to provide backported DEB packages.
- Setup performance monitoring via Cacti.
- Managed storage and delegated S3 buckets as necessary.
- Administered mysql, set up replication.
- Responsible for security of QA and production environments.

September 2008 - February 2011

TSYS Inc. Tempe, AZ

Systems Software Analyst Senior

Responsibilities

- Architected Linux virtualization environment with VMware and Websphere for second largest credit card processor in North America.
- Automate processes with Perl and bash.
- Tuned Systems for optimal performance with processor binding, OS tuning, and thread synchronization.
- Administered HP-UX, AIX, Sun Solaris, Red Hat Linux, SuSE Linux.
- Setup and configured monitoring with Applications Manager and administered related Mysql database.
- Administered Brocade fiber optic SAN.

- Administered Hitachi storage arrays.
- Setup and configured EMC CX storage arrays.
- Administered backup solution with HP DataProtector.
- Administered backup with IBM Tivoli.
- Monitored IT assets using HP OpenView and AdventNet.
- Automated patch processes with Lumension Patchlink.