

# Brent Roberts

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## Summary

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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

**Operating Systems:** Any .rpm (yum) or .deb (apt) Linux distro

**Configuration Management:** Terraform, Chef, puppet

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

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

**Linux-related skills:** 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, HTML, client-side JavaScript, Ajax, jQuery, HTTP Virtualization: VMware, Xen, qemu, AWS.

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

**Other Abilities:** SAN (Brocade) administration

## Education

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**Ira A. School of Engineering at Arizona State University • Tempe, AZ**

(Unfinished) Bachelor of Science in Bioengineering

## Professional Experience

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**April 2023 – Present**

AJR Industrial, Inc.

Chandler, AZ

Consultant

Responsibilities

- Build and deploy construction component lifecycle tracking system, using Ruby-on-Rails and Heroku
- Train project managers on web portal usage
- Advise on ChatGPT and LLM implementation

- Administer Ubuntu Linux systems
- Oversee company-wide ubuntu 18 to ubuntu 22 upgrade

### **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
- Set up S3 buckets and 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).
- engineers).

- Setup Network Operations Control center in Manilla, Phillipines (trained all new engineers).
- Setup Network Operations Control center in Madison, WI (trained all new engineers).
- Assisted with hiring process of new engineers.
- Provided lots of 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.
- entire cookbooks.
- Configuration management with Chef (using Enterprise Chef server). Authored Clam A/V.
- Designed and implemented anti-virus scanning concept with AWS SQS EC2 and Ruby library and CLI tool to call out to API.
- AWS: EC2, S3 (including composing policies), SQS, Route53, CloudFront, IAM, used solution).
- 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 procurement 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 server 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.
- Used Puppet as automation framework to enforce configuration across multiple Linux servers.
- Automate release processes with git and one-off perl scripts.

- Worked with Amazon's EC2 and API tools, including automated launch of new linux server using "user-data" feature and Puppet.
- Built and configured Ubuntu Linux servers and utilized Launchpad PPA to provide backported DEB packages.
- Setup and configured monitoring via Nagios with custom scripts including monitoring of Starling queues.
- 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.