



# Xander Harris

Cloud Architect, Senior DevOps Engineer, Senior Software Engineer

## Summary

Straight shooter with upper management written all over me.

## Contact

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## Skills

### Automation

- ◆ OSS
  - Terraform
  - Ansible
  - Jenkins
- ◆ Google Cloud
  - GDM
- ◆ AWS
  - CloudFormation

### Monitoring

- ◆ OSS
  - Prometheus
  - Grafana
  - Thanos
  - AlertManager
- ◆ MaaS
  - NewRelic
  - DataDog
  - ServiceNow
  - StackDriver

### Networking

- ◆ GCP/AWS
  - VPCs
  - Subnets
  - Security Groups
  - Firewalls
- ◆ General
  - TCP/IP
  - E2E Encryption

### Languages

- ◆ Programming
  - Python
  - Go (Golang)
  - Java
  - Ruby
  - JavaScript
- ◆ Scripting
  - Shell
  - Bourne Again Shell
  - PowerShell
- ◆ Markup
  - Markdown
  - XML
  - HTML
  - YAML

### Orchestration

- ◆ Platforms
  - Bare-metal
  - Kubernetes
  - Docker Enterprise
  - Container Runtime Interface (CRI)
- ◆ GCP
  - Google Kubernetes Engine (GKE)
  - Google Compute Engine (GCE)
- ◆ AWS
  - Elastic Kubernetes Service (EKS)
  - Elastic Container Service (ECS)
  - Elastic Compute Cloud (EC2)

### CI/CD

- ◆ Build/Delivery
  - Jenkins
  - GitLab CI
  - CircleCI
  - Travis CI
- ◆ Quality
  - SonarQube
  - Code Climate
  - CodeCov

### SDLC

- ◆ Agile
  - SCRUM
  - Branching Models
- ◆ Waterfall
  - Semantic Versioning
  - Release Cycles

### Databases

- ◆ Relational DBs
  - PostgreSQL
  - MariaDB
  - MySQL
  - MSSQL
- ◆ NoSQL
  - MongoDB
  - DynamoDB
  - BigTable

## Experience

### Wunderkind, Inc

### DevOps Engineer

Los Angeles, California

09-2021 – 12-2023

- Monitoring w/Prometheus and DataDog
  - Developed a set of metrics required of custom applications by Prometheus to provide consistent PagerDuty alerting to development teams.
  - Documented the process of implementing the above requirements so that they could be implemented across the entire engineering organization.
  - Completed migration from DataDog to Prometheus and Grafana by removing all DataDog-sourced alerts from Grafana.
- Automation, Integration, Delivery and Operations
  - Maintained and developed helm charts for use with deploying both third party and custom software to Wunderkind GKE clusters.
  - Supported deployment of multiple applications using helm charts and GitLab CI pipelines.
  - Wrote GitLab CI pipelines and templates to enable the use of static analysis tools such as SonarQube.
  - Developed multi-stage Docker builds to reduce build time and create smaller deployment images.
- FinOps
  - Deployed opencost.io (OSS version of kubecost) to all

- Wunderkind GKE clusters to provide cost data to Prometheus.
- Demonstrated usage of the GCP Billing Console to R&D executives.
- Infrastructure as Code
  - Created Terraform code to deploy or update GKE clusters and node pools to follow organization labeling standards.
  - Imported to GitLab CI Terraform state all existing GCP resources for a major application and created GitLab CI deployment pipelines to deploy and maintain cloud resources.
  - Migrated infrastructure code from Google Deployment Manager to GitLab CI with Terraform.
- Go (Golang) Development and Software Engineering
  - Implemented Go metrics for MySQL, enhancing monitoring with real-time database performance insights.
  - Developed automated tests in Go for API validation, ensuring high reliability and performance across system components.
  - ['hip', 'hip'] (array!)

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**Tools:** vscode, vim, GitLab CI, Docker, Alpine Linux, BASH, Go, GCP GKE, GCP Compute, GCP Storage, GCP Networking, GCP Cloud SQL, Terraform, Python, git, DataDog

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## Experience Continued

### Databricks, Incorporated (PT)

### Documentation Platform Engineer

Los Angeles, California

11-2020 – 07-2023

- Python Development and Software Engineering
  - Automated Python API docs for Databricks Feature Store, streamlining documentation processes and enhancing team efficiency.
  - Enhanced PyTest coverage for Databricks docs Python codebase, boosting code reliability and maintainability.
- Automation, Integration, Delivery and Operations
  - Documented build/test workflows for documentation sites, ensuring consistent, error-free updates and deployments.
  - Managed CircleCI pipelines for Databricks docs, ensuring seamless builds/deployments and integrating custom Sphinx extensions.
  - Supported technical writers with the use of Sphinx to generate Databricks docs, ensuring quality and consistency in documentation delivery.

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**Tools:** vscode, vim, Python, Sphinx, Bazel, CircleCI, git, GitHub, pytest, bash, Docker, YAML, Markdown, rST

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### Fox Corp (via SBS)

### Senior DevOps Engineer

Los Angeles, California

05-2020 – 07-2021

- Monitoring with NewRelic and DataDog
  - Compiled data on New Relic alerts caused by Media Cloud systems for tuning purposes.
  - Moved existing New Relic monitoring to DataDog for all Media Cloud services.
  - Automated deployment of DataDog agent configuration to Docker services with Jenkins and Ansible.
- Automation, Integration, Delivery and Operations
  - Improved stability of video and audio transcoding and quality-control production services running on EC2 instances using both Linux and Windows such that outage frequency was reduced from several per day to once or twice per month.
  - Participated in a 24/7 on-call rotation to provide incident response and issue resolution for all Media Cloud mission-critical production services.
  - Wrote Jenkins pipelines to enable execution and analysis of Python and Java unit tests.
  - Created Terraform code to deploy EKS clusters and related ECR repositories in multiple AWS environments.

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**Tools:** vscode, vim, Jenkins, Docker EE, RHEL, Alpine Linux, BASH, Python, AWS, Terraform, Terraform Enterprise, Bitbucket, git, Python, New Relic, DataDog

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### Infor Incorporated

### Senior DevOps Engineer

Los Angeles, California

09-2019 – 05-2020

- Automation, Integration, Delivery, and Operations
  - Designed and implemented GitLab CI pipelines for numerous projects across two teams.
  - Automated build and deployment of RPMs using Python setuptools, FPM, GitLab CI, Faro and Ansible.
  - Developed and deployed several Docker images for use on GitLab runners.
- Python Development, Scripting and Software Engineering

- Spearheaded unit testing efforts using pytest and Pester for testing of Python, BASH, and PowerShell code bases.
- Added coverage reporting for numerous Python code bases using pytest-cov.
- Developed BASH and Python implementations of a log monitoring service.

**Tools:** vscode, vim, GitLab, GitLab CI, GitLab Runner, Docker, CentOS, Alpine Linux, BASH, Python (2 and 3), PowerShell, AWS, SumoLogic, Ansible, Faro

## Disney née Fox Media

## Senior DevOps Engineer

Los Angeles, California

12-2018 to 09-2019

- Automation, Integration, Delivery and Operations
  - Improved continuous integration, deployment, and delivery.
  - Developed multiple continuous delivery pipelines with Jenkins.
  - Architected, deployed, automated and maintained Jenkins as a service with Docker Swarm, Groovy, Bash, Kubernetes and Ansible.
  - Replicated services and software from Fox Media AWS accounts.
  - Implemented deployment of Docker Swarm clusters to AWS with Terraform.
  - Deployed monitoring packages such as New Relic, Splunk and Sysdig to all systems managed by the operations team with Ansible.

**Tools:** atom, vim, Jenkins, Docker, BASH, CentOS, Alpine Linux Python, PowerShell, JavaScript, New Relic, AWS EC\*, AWS CloudWatch, Splunk, Ansible, The Update Framework, Sphinx

## Infor Incorporated (via Taos Mountain LLC)

## Senior DevOps Engineer

Los Angeles, California

06-2018 to 09-2018

- Python Development and Software Engineering
  - Updated Step Function and its constituent Lambda functions such that successfully processed events read from a Simple Queue Service queue would be written to a Kinesis stream.
  - Added API key authorization to existing API to enable access via an API Gateway to create the CMDB Client API.
  - Automated the deployment of DynamoDB tables and previously mentioned Kinesis stream with Faro.
  - Wrote Python to acquire statistics and publish them to a Grafana endpoint.
  - Implemented GitLab Continuous Integration for testing and deployment.

**Tools:** vim, BASH, Python, AWS API Gateway, AWS Route 53, AWS Lambda Functions, AWS CloudFormation, AWS SQS, AWS Kinesis, AWS S3, Faro

## Gahan Corporation

## Director of Technology

Los Angeles, California

05-2016 to 01-2018

- Technology
  - Managed gahan-corporation.com mail services using Postfix with Courier (IMAP) then migrating to Dovecot with Ansible, Docker, AWS ECS, and AWS Route53.
  - An SQL query walks into a bar, walks up to two tables and says, 'do you mind if I join you?'

**Tools:** vim, BASH, AWS, GCP, Ansible, Python, Jenkins, Docker, Kubernetes, git, Nagios, Bitbucket, JIRA, Tomcat, Confluence

## Experience Continued

### CSI (Gahan Corp)

### DevOps Engineer

Los Angeles, California

09-2017 to 01-2018

- Client of Gahan Corporation.
  - Automated management of development, staging, and production Odoo environments, as well as PostgreSQL servers and databases with Ansible and Docker.
  - Designed and deployed CI/CD system with Jenkins on Linode which enabled automated testing of Python and PostgreSQL with PyTest, Ansible, and Docker.
  - Developed Odoo Enterprise Modules with Python, PostgreSQL, and SQLAlchemy that required extreme reduction of cyclomatic complexity, complete rewrites to comply with PEP8, in addition to a far greater number of bug fixes than was ever accounted for.
  - Wrote API documentation with Sphinx and improved documentation for standardization and compliance.
  - Discovered mission critical inconsistencies in accounting and inventory data which was causing valuation errors in excess of one million dollars using Odoo, PostgreSQL, Python, and SQLAlchemy.
  - Trained team members on the use of PostgreSQL to query and analyze accounting and inventory data.

**Tools:** vim, BASH, AWS EC2, AWS S3, NGINX, Jenkins, Ansible, Docker, HTML, CSS, JavaScript, PostgreSQL, Sphinx, Odoo ERP, coveralls.io, Nagios, GitHub, Bitbucket, git, Linode, patience

### Abiogenix, Inc (Gahan Corp)

### DevOps Engineer

Los Angeles, California

08-2014 to 05-2018

- Client of Gahan Corporation.
  - Deployed, managed, and automated configuration of Atlassian suite (JIRA, Bitbucket, Confluence) with Amazon EC2, Amazon ECS, Ansible, Docker, and Ubuntu.
  - Deployed and maintained mail services for my-ubox.com with, Postfix Courier (IMAP), Ansible, Amazon ECS, and Docker.
  - Administered and automated maintenance of Odoo ERP servers (development and production) with Ansible, Python, Docker, Amazon ECS and PostgreSQL.
  - Trained team members on proper use of git and gitflow to manage branching and deployment to production.
  - Implemented push-to-deploy on Abiogenix web repositories to allow developers to deploy to production without using ssh.

**Tools:** vim, BASH, AWS EC2, AWS S3, AWS Route53, AWS IAM, AWS ECS, NGINX, Ubuntu, Ansible, Docker, Stripe, Python, Django, Odoo, REST, Postfix, Courier (IMAP), Nagios, PHP, HTML, CSS, jQuery, git, Bitbucket, JIRA, Confluence, Tomcat, Apache2

## Network of One (Gahan Corp)

## Python Developer

Los Angeles, California

07-2016 to 08-2016

- Client of Gahan Corporation.
  - Configured, deployed, and provided instruction for a CRM system using Ansible, BASH, and AWS EC2.
  - Developed automated distribution of public keys to EC2 instances based on user groups with AWS EC2, AWS IAM, Python, BASH and Ansible.
  - Automated configuration of EC2 instances with Ansible and BASH.

**Tools:** vim, BASH, Ansible, Python, AWS EC2, AWS IAM, NGINX, Docker, IBM DB2 AWS RDS, PostgreSQL

## Creative Artists Agency

## DevOps Engineer

Los Angeles, California

09-2015 to 03-2016

- Automation, Integration, Delivery and Operations
  - Implemented CI/CD for an internal project which was a year behind schedule to enable the developers to deliver bug fixes and new features daily with Jenkins, Ansible, Python, Web2Py, and Ansible Tower.
  - Managed and monitored cloud infrastructure of roughly 30 EC2 instances using Ansible, Ansible Tower, BASH, CentOS, Ubuntu, and New Relic.
  - Alerted stakeholders to failing jobs in Ansible Tower or non-functional infrastructure with New Relic, PagerDuty, Python, and Ansible.
- Python Development and Software Engineering
  - Trained and guided WorkDay migration team in the use of Python, Pandas and JupyterHub through completion of the project.

**Tools:** vim, BASH, Ansible, Ansible Tower, Python, AWS EC2, NGINX, uWSGI, Python, Web2Py, Jenkins, Docker, Ubuntu, CentOS, JupyterHub, git, GitHub, MySQL, Slack

## Toyota Motor Sales

## DevOps Engineer

Torrance, California

01-2015 to 07-2015

- Automation, Integration, Delivery and Operations
  - Automated deployment of Customer 360 services to reduce time to deploy from several weeks to less than an hour with Ansible, BASH, Java, Ant, Maven, Tomcat, and Scala Build Tool.
  - Managed configuration and maintenance of Customer 360 cloud infrastructure consisting of roughly 10 Red Hat Linux EC2 instances using Ansible, BASH, and Python.
  - Designed, deployed, and implemented automated tests and deployment of Customer 360 code written in Java, Scala, and Python with Ansible, BASH, Ant, Maven, and Jenkins.
  - Supported a team of 25 developers with Jenkins CI, Bitbucket, and Ansible to ensure they were able to release on time.
- Python Development and Software Engineering
  - Provided instruction on the use of git, gitflow, Bitbucket, and best practices for commits and merges to Customer 360 developers after gaining consensus and approval of Customer 360 management with an A3 presentation.
  - Refactored and developed web scraping software using Scrapy, Python, and Ansible.
  - Wrote and implemented a Python style guide and provided instruction on compliance to team of remote Python developers.
  - Participated in sprint planning and review cycle with Customer 360 team of 25 developers.

**Tools:** vim, BASH, Ansible, Jenkins, Python, Java, Ant, Maven, Scala, Tomcat, SBT, git, AWS EC2, CentOS, Bitbucket, JIRA, REST, SCRUM, gitflow, Scrapy

