

Michael Reeves

email: mike.reeves@gmail.com

phone: 949.777.5640

linkedin: linkedin.com/in/runamok

github: github.com/mreeves1

github.com/pc-mreeves

EXECUTIVE SUMMARY

- Dedicated practitioner of "Infrastructure as Code" (IAC) utilizing CloudFormation, Terraform, Ansible, Bash, AWS Cli, etc. with the goal of automating everything.
 - Deeply committed to security & defense in depth to safeguard customer data & systems
 - Detailed knowledge of AWS & Network/Security/IAM - Strengths: VPC, CloudFormation, IAM, EC2, RDS, S3, Route53, ElastiCache, DynamoDB, Kinesis, Lambda, API Gateway and more
 - Programming knowledge of Bash, Ruby, PHP, Python, JavaScript, HTML, CSS; Focus has been mentoring and peer review but possess "good taste" and love programming
 - DevOps Things: CI/CD, server provisioning, cloud services, automation, Linux servers, etc.
- Act as a force multiplier for engineering, security and data science teams
- Broad generalist knowledge (from CSS to CSP and networking to OOM killers) makes me an effective troubleshooter when things go awry or bottlenecks arise
 - Committed to learning, improving, training and most importantly, documenting **everything** I create
 - Works well in a leadership capacity, a team environment or as an individual contributor
 - Takes ownership and pride in everything I do; from designing system architecture to making pull request comments on colleagues' work

SKILLS

Operating Systems

Linux (Ubuntu and Centos); Mac OS X; MS Windows

Programming Languages & Technologies

Bash, Ruby, Python, PHP, JavaScript, SQL, CSS, HTML; OOP, Agile Software Dev, Full Stack Dev in a previous life

Software, Servers and Tools (in rough order of recency)

Chef, DevOps, IAC, AWS, Kubernetes, Docker, Istio, Helm, Terraform, Ansible, Jenkins, CloudFlare, Splunk, Packer, AWS cli, Vim, Git, Github, Packer, Linux Admin, Network Design, Vagrant, StatsD/Graphite, Apache, Nginx, Varnish, Redis, Memcached, MongoDB, MySQL, AppDynamics, Data Dog, Splunk, PagerDuty, Loggly, New Relic, Pivotal Tracker, JIRA, Bugzilla, Magento EE, etc.

RELEVANT WORK EXPERIENCE

Personal Capital – Redwood Shores and San Carlos, CA

DevOps Architect

9/2019 – 9/2022

Moved into an architectural role since our company and team scale has gotten too large to effectively manage alone.

- Led our company's successful migration from EC2 to containers using Kubernetes, Istio, Helm, EKS, Docker, etc. and successfully ran auto-scaling production workloads on Kubernetes for 3 years.
- Led an effort to help Empower (our parent company) Architects utilize our EKS & K8s knowledge and design to bootstrap their own K8s migration.
- Designed (sometimes in collaboration with Engineering) & implemented many interesting projects such as cross account bi-directional S3 replication w/ KMS, AWS API Gateway with mTLS and OAuth, DRYed and simplified our RDS CFn, S3 included CFn Maps and Conditions, imported legacy

AWS resources into CFn stacks as part of an EBS and S3 encryption initiative and many more.

- Continuously improved our EKS based K8s design such as moving to VPC, Master node logging, Pod Level IAM, Managed Add-Ons, Managed Worker Groups, etc.
- Wrote many READMEs and Wiki-based Design Docs, Manuals and HOW-TOs and continue to drive a culture of knowledge sharing and documentation in the team and company at large
- Heavily contributed to our ansible & helm based EKS & K8s orchestration and deployment tools
- Supported and acted as a quality gate for many projects/tasks by the on-shore & off-shore teams
- Gave presentations and training on various DevOps, infrastructure and security topics.

DevOps Manager

2/2018 – 9/2019

Promoted to lead our small (but powerful) DevOps team and continued to be a force multiplier for our talented engineering and data teams while still doing the day-to-day work as an IC

- Prioritized and scheduled operational tasks and longer-term projects in a 4-person team with “customers” such as IT, Security, Engineering and Data Teams
- Fostered an approach to quality, security, documentation and knowledge sharing on the team
- Created an on-call process to allow better focus for rest of the team on larger projects

DevOps Lead

7/2017 – 2/2018

Promoted to help oversee our team's interface with other teams like Data, Engineering, Security, Product, etc. primarily due to my knowledge of AWS, IAC and commitment to security

- Designed generic CFn templates that made it simple to stamp out different types of EC2 servers, RDS clusters, etc.
- Created CFn to support potential partners in new AWS accounts to recreate AWS resources that had been manually created before my time (S3, SQS, Kinesis, ElastiCache, Security Groups, etc.)
- Greatly improved my networking design knowledge while working on VPC CFn
- Still mostly an individual contributor while in this role

Senior DevOps Engineer

9/2016 – 7/2017

I am incredibly excited to be here and hope to make an important impact and help us grow. I want to be a force multiplier for our development team and ultimately assist our paying customers and the many people using our mobile and web apps to understand and improve their financial lives

- Created most of our Cloudformation and IAC (most AWS resources had been created manually via the UI) and created the conventions and best practices we continue to follow

Kabam – San Francisco, CA

Senior Software Engineer

5/2013 – 8/2016

At the end of my sojourn here, I was focused on DevOps utilizing TDD, Continuous Integration, etc. I continued to further my experience with AWS, Chef, Rightscale, Jenkins, Vagrant, MongoDB, Git, etc. and continuously made our stacks more resilient and improved alerting

- My final successful project involved migrating several applications (php, java and ruby) hosted in a data center into AWS; utilizing primarily Chef and Rightscale with a small team of engineers and sysadmins under a tight deadline
- Contributed to our new mobile SDK for Android; especially the versioning and build process
- Worked on a small DevOps team improving the infrastructure (using AWS and Chef) of our SDK backend using Scala with the Play framework and MongoDB serving ~100k requests/min
- Tested and planned for a 10x traffic increase to our platform due to a new game's release and made scaling improvements as well as suggestions to the backend and external vendor teams
- Improved reliability, documentation and functionality of our internal infrastructure tools
- Spearheaded adding metrics and alerts (statsd, graphite, cloudwatch, etc.) to our infrastructure

- Assisted in bringing up a new infrastructure platform in China AWS with all the limitations of sporadic outages, reduced services offered by AWS, the great firewall, etc.
- Gave presentations on various DevOps/Infrastructure topics to internal and external teams
- Made decisions on “build vs. buy” on various architectures and services and monitored costs

Zoostores.com – San Mateo, CA

Senior Developer

10/2010 – 4/2013

- Implemented functionality & theming based on comps for Magento EE 1.9 for Zoostores.com
- Mainly utilized Zend Framework (PHP); Prototype, scriptaculous and JQuery (JavaScript)
- Took ownership of our full Magento multi-tier setup including searching for ways to improve performance, customer experience and conversion rates
- Made production deployments of our stack due to bug fixes and new features
- Created, implemented and modified Magento modules to provide new business functionality
- Made use of AWS resources such as EC2, RDS, S3, Cloudfront and many more
- Upgraded Magento EE from 1.9 to 1.12.02 with a small team while cleaning up the code to make future upgrades more efficient
- Worked with Chef to create and update multi-tier server provisioning and deployment “recipes”

Specific Media – Irvine, CA

Senior Developer

4/2007 – 10/2010

Versatile contributor to diverse internal software projects for one of the world’s largest independent ad networks

- Member of an international team that integrated the Ad Server Platform of an acquired company with the rest of our architecture and business processes
- Worked on critical Ad Server Application using (a form of) CakePHP and ExtJS (aka Sencha)
- Continued to work closely with operations to deliver timely bug fixes and new features that will improve employee productivity on internal business applications
- Greatly improved my knowledge of multi-tier large scale system design
- Greatly improved my Linux admin and user skills
- Developed our international company website in PHP on a tight deadline
- Extended and enhanced our extranet portal used by our biggest clients

Gateway – Irvine, CA

Senior Developer

9/2005 – 4/2007

Member of team working on business-to-business Gateway website

- Further expanded PHP and MySQL skills as well as learned new ones related to Oracle, CVS, Bugzilla, OOP and Zend Studio
- This B2B website (select.gateway.com) facilitates contracts worth millions of dollars and is a high priority in the organization

EDUCATION

Rice University, Houston, Texas B.S. Degree in Mechanical Engineering, 1997

HONORS AND AWARDS

- At Personal Capital I was promoted 3 times due to my work ethic and contributions and received numerous “shoutouts” related to my contributions to security and teamwork
- In 3 years at Kabam I received 9 peer bonuses from my talented colleagues
- National Merit Scholar, 1993
- Set the North Carolina age 16-17 Marathon Record of 2:57:46 in 1993 (faster than 18-19 record)