Marty Zalega
Software Engineer

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Work experience

Senior Site Reliability Engineer
2020-12 - Current

Arkose Labs Pty Ltd

Arkose Labs specialise in fraud prevention solutions. My role is with the Platform team. Some of my achievements include:

- Provisioned a new regional application stack using HSM-backed encryption to serve financial institutions with special security requirements.
- Setup a dedicated application stack in AWS China to improve latency for customers within that region.
- Implement blue/green deployment to the flagship application to improve deployment reliability.
- Created an autoscaling ECS cluster of GitHub Runners for increased security of CI/CD pipelines.
- Provisioned AWS EKS clusters in multiple regions and assisted teams to implement continuous delivery in their projects.
- Improved AWS account and user security by separating environments into individual accounts. Management is handled by Terraform and pipelines with all changes tracked and approved in GitHub.

Terraform, AWS, Javascript, Bash, Docker, Linux, GitHub Actions, Kubernetes, Nginx

Lead Site Reliability Engineer
2015-01 - 2020-11

Everyday Hero Pty Ltd

Everyday Hero is a fundraising platform available in multiple countries. I managed the company's infrastructure team. My responsibilities include:

- Developing, maintaining, and being on-call for 40+ websites and services. I led an inventory and security analysis of our services performing the majority of the technical requirements for regulatory compliance.
- Create and maintain tools to help developers inspect and interact with applications and resources using Ruby and Bash.
- Automate maintenance of services and AWS resources with Terraform and Ansible and switched to immutable servers.
- Migrated applications to run on AWS ECS and connected to Application Load Balancers. Combined with Application Autoscale to scale with load and reduce unnecessary costs.
- Support maintenance for legacy applications with infrequent feature development using Rails and Javascript.
- Monitoring our services using AWS CloudWatch Logs, AWS CloudWatch Metrics, Logentries, and PagerDuty.
- Maintaining our deployment pipelines on Buildkite. Created isolated queues dependant on task. ie. One queue for performing Terraform operations with certain security privileges while another for creating AMIs, etc.

Terraform, Ansible, Ruby, Javascript, Bash, Docker, Linux, Nginx, Buildkite CI, AWS, Logentries, Elasticsearch, Fluentd, Logstash, PostgreSQL, MySQL, RabbitMQ.

Lead Software Engineer
2012-01 - 2015-01

Everyday Hero Pty Ltd

Everyday Hero is a fundraising platform available in multiple countries. I lead the company's B2B application team. My responsibilities include:

- Build the next generation of customer-facing products using Ruby on Rails and React JS, segregated into micro-services.
- Create a dockerised environment for local development and testing.
- Create a CI/CD pipeline to automate testing and deployment using Buildkite CI.
- Dockerise and migrate legacy Rails applications and databases to AWS.
- Manage a team of developers; sprint planning, retrospectives, and mentoring.

Ruby, Javascript, Bash, Ruby on Rails, React JS, Docker, Nginx, Linux, Buildkite CI, AWS, Elasticsearch, PostgreSQL, MySQL, Semaphore CI, Code Climate.

Software Engineer
2010-05 - 2012-01

Everyday Hero Pty Ltd

Everyday Hero is a fundraising platform available in multiple countries. I was part of a development team and worked on:

- Create a new B2B product using Ruby on Rails, jQuery, and jQuery UI.
- Create and launch next generation fundraising platform using Ruby on Rails.
- Configure Jenkins on a Mac Mini to serve as a local CI/CD environment.

Ruby, Javascript, Ruby on Rails, jQuery, jQuery UI, Capistrano, MySQL.

Lead Web Developer
2008-11 - 2010-05

NetEngine

NetEngine is a Brisbane based developer agency.

Providing consultancy for local business to build or enhance their web presence and bespoke solutions. Tasks include: design and mock ups, front-end and back-end development, search engine optimization, communicating with clients, quotations, infrastructure management, and technical advisor. Technologies used: Ruby on Rails, Drupal, PHP, Javascript, Ubuntu Linux.

Information Systems Administrator
2005-09 - 2008-11

C8 Pty Ltd

C8 was a distributor of medical and aesthetic devices for the Australian and New Zealand region.

Developed and maintained the company's web presence, which included web site, online store, various branding campaigns, SEO, and supporting the infrastructure. Other responsibilities were to manage and support staff and office systems, such as email server, printers, trouble shooting, etc.

Education

Bachelor of Information Technology
2001 - 2005

Griffith University

Community

Panel Speaker
- 2016

Australian Cloud & DC Summit

Participated in a discussion about running Docker in production with Kubernetes founder Craig McLuckie.

https://www.itnews.com.au/feature/how-seek-and-everydayhero-put-docker-into-production-417805

Mentor
2014 - 2018

Rails Girls Brisbane

Rails Girls is a community-backed annual workshop to introduce women into the technology industry.