



ROBERT ANDRUSCHOW

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 - pdf
- Code for this website can be found [here](#). Hosted on GitHub Pages.

DevOps / Site Reliability Engineer, Backend Engineer

PROFESSIONAL EXPERIENCE

UP42

June 2020 - Present

Senior DevOps Engineer

- Built and maintained cloud infrastructure in mainly GCP, but also AWS and Azure
- Terraformed all the things using various providers including GCP, AWS, Azure, Pingdom, DataDog, Cloudflare (Zero Trust), Spot.io, OpsGenie and GitHub
- Creation and maintenance of GKE-based Kubernetes clusters hosting the entire UP42 platform
- Designed and implemented secrets management using HashiCorp Vault
- Introduction of Cloudflare Zero Trust: Providing non-public IP access to internal applications utilizing SAML and GitHub authorization
- Introduction of cloud user and service permissions scheme based on the principle of least privilege
- Managed conduction of penetration tests with multiple external companies and organized fixing the found issues
- Support of SOC 2 Type 2 cyber security certification process
- Increased observability of the system using Datadog, GCP Metrics and Pingdom and introduced alerting and on-call using OpsGenie
- Reduced Kubernetes cluster node costs by 75 percent using spot.io
- Network design and administration: NAT's, firewall rules, routing, peering, Shared VPC's.
- Designed and implemented application and infrastructure CI/CD pipelines with CircleCI and Slack reporting
- Supported software engineers with SRE-related questions and problems
- Supported various product efforts in the geospatial domain
- Hiring Manager for SRE team: Interviewed and hired new team members
- First steps into leadership role with 1 report and being part of the extended leadership group

Tech Stack: GCP (GKE, Shared VPC / Cloud NAT / Firewall and Routing, IAM, CloudSQL, Pub/Sub, GCS, GCR, Logging), Kubernetes, Terraform, Helm, Docker, CircleCI, GitHub (Actions), ArgoCD, Argo Workflows, HashiCorp Vault, DataDog, Prometheus / Alertmanager / Grafana, Cloudflare (Zero Trust), OpsGenie, Pingdom, Spot.io, AWS (IAM / S3 / SageMaker), Ruby, Golang, Java / Kotlin, bash/zsh/ash, Windows VM Licensing

Bonial.com

October 2017 - May 2020

DevOps Engineer

- Designed and implemented SDLC and CI/CD processes using Spinnaker and Jenkins
- Initiated containerization in the company, first with AWS ECS, then with Kubernetes / EKS
- Deep dive into Kubernetes and EKS - as a team, we provided a fully-automated cluster setup using terraform including CI/CD with Spinnaker, logging with fluentd/Cloudwatch/Elasticsearch, monitoring with Prometheus and on-call with VictorOps
- Built and extended a staging environment creation app that builds dozens of staging environments every day.
- Built metrics proxy for DataDog able to white- and blacklist custom metrics sent to DataDog. High performance system with 6000 requests/m.
- Implemented Slack ChatOps app that could trigger/halt/proceed Spinnaker builds.
- Extending and maintaining our AWS infrastructure using infrastructure-as-code using terraform and CloudFormation
- Main go-to-person for all SDLC revolving topics for our around 100 developers. Introduced SDLC ambassador program organizing knowledge transfer to the teams.

Bonial.com

June 2011 - Oct 2017

Backend Developer

- Implemented web apps, KPI logic and b2b logic in spring-* and grails
- Owned and maintained main notification system with millions of notifications per day
- Dealing with design and migrations of various db systems (Postgres, MongoDB)
- Deployment of applications on AWS auto-scaling VM groups using Spinnaker
- Auto-scaling patterns, anti-trainwreck patterns, microservices, BDD/TDD
- Working in an international always-growing and -learning IT team using Scrum and Kanban

Self-Employed

2010 - 2013

Pawn Shop Business Software

C# and .Net Development with WinForms

Technische Universität Berlin

2007 - 2017

Studying Technical Mathematics

Learning mathematical basics, prove techniques and highly abstractive thinking

Specialising in differential equations and numerics

java, MATLAB and python (NumPy/SciPy) development

Bachelor of Science in 2011 (1.8)

HOBBIES

I am a lot into music, both playing and listening. Guitar player since 2004.

Apart from that, I am into reading, traveling, chess and sports (running, swimming, bouldering, table tennis). Maintaining friendship and getting to know new people is important to me.