Katherine **Pata**

CLOUD · KUBERNETES · PLATFORM ENGINEER

Amsterdam, The Netherlands

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6+ years experience working with Cutting-Edge Web Technologies, with a focus on Platform Engineering, Infrastructure Automation, and Site Reliability Engineering. Advocate for DevOps as a part of the Development Process, Continuous Integration and Deployment, and Infrastructure as Code. With a love for open source, from old-friends such as vim, sed, grep, to brand new ones in the modern Cloud-Native world, and a passion for figuring out clever and reliable solutions to challenging problems. Interested in working on projects within an enthusiastic and collaborative team culture, utilizing technical expertise across functions, and a quality-first approach. Available for new opportunities (email preferred).

Experience

Marktplaats.nl
April 2020 - PRESENT

PLATFORM (DEVOPS) ENGINEER

- Participated in the transition from eBay Classifieds Group to Adevinta, becoming part of the largest portfolio of 2nd hand markets
- Engineered the base infrastructure PoC for the next generation of the platform with Kubernetes (GKE) on Google Cloud Platform
- Contributed to the the integration milestone of platform migration to Amazon Web Services, post company merge into Adevinta
- Integrated existing infrastructure (such as CockroachDB, Cassandra...) into custom-built declarative management
- Reduced development friction by developing human-friendly integrations with technologies such as Slack and GitHub
- Standardized our monitoring and alerting strategy into a cohesive system using Prometheus and Grafana
- Led an initiative to integrate documentation into the definition of done, working on eliminating knowledge silos
- Empowered team collaboration and growth by integrating Retrospectives and Sprint Demos to our workflow
- Worked across a variety of teams to create new solutions, and promote visibility into hidden development costs

Aigent
December 2018 - March 2020

PRIVATE CLOUD ENGINEER

- Engineered an infrastructure as code solution to enable administration of 60+ baremetal servers and associated VPN backbone
- Developed an automated immutable infrastructure solution (in the form of continuously integrated virtual machine images)
- Enforced PCI Compliance throughout the infrastructure, ensuring safety of all sensitive personal and financial data
- Responsible for and automated deployment of multiple high-availability kubernetes clusters consisting of 3 masters and many nodes
- Utilized Gitlab CI to enable continuous delivery of services to multiple clusters and environments (dev, prod...)
- Converted legacy systems to Kubernetes deployments and infrastructure as code, reducing est. recovery time from weeks to hours
- Implemented monitoring, alerting, and high availability for mission-critical components to meet Service-Level Agreements

Podictive
June 2018 - November 2018

SOFTWARE ENGINEER

- Designed and implemented a web application which provides vulnerability management solutions
- Integrated expertise from colleagues for security toolings such as NMap, Nessus, OpenVAS... etc
- Implemented container based microservices using Flask (Python) and Docker + Docker-Compose
- Utilized core Linux tooling such as SSH, Bash, advanced file and process management in order to integrate solutions
- Streamlined development workflow by integrating the Github workflow, increasing visibility and stability of code
- Improved innovation rate by employing unit testing and continous integration practices

LADEG non-profit
Jan. 2017 - July 2017

WEB DEVELOPER AND SYSTEM ADMIN

- Implemented a content management system and full featured website with a landing page, blog, and multimedia
- Worked with non-tech people to find technical solutions to manual problems

Storch
Sep. 2016 - March 2017

PROJECT LEADER

- Led a team consisting of seven members, split across Android, Angular, Django, and PostgreSQL respectively
- Designed and developed a Google Maps based Android app, following material design guidelines
- Implemented a RESTful Web Service using the Model-View-Controller Pattern

Skills

DevOps	Infrastructure as Code (IaC), Immutable Infrastructure, Continous Integration & Delivery (CI/CD), Integration & Unit Testing
SRE	Monitoring, Tracing, Logs, Shared ownership/responsibility, Blameless Post-Mortems, SLI->SLO->SLA
Tooling	Ansible/Salt, Terraform, Vault, Packer, Github/Gitlab, Kubectl, Crossplane, Flux GitOps
Cloud	Kubernetes, Docker/Containerd/Podman, Microservices, NOSQL, Message Queues (MQTT), GCP / AWS
Languages	Golang, Python, Bash/ZSH, Javascript, Rust, LaTeX
Linux	Bash/ZSH/Shell Scripting, Systemd, Makefile, Vim, Ubuntu/Debian/RedHat(RHEL)/Fedora/Arch/NixOS...
Networking	IPTables, Firewalld, Wireguard, OpenVPN, OpenWRT, Ubiquity
Virtualization	QEMU/KVM/libvirt + virtio, VFIO Passthrough, Vagrant, Minikube/kind, KubeVirt
Personal	Home Assistant, Jellyfin/Plex, Switch/PS5/PC Gaming, Soldering, Board Games, Leathercraft