Jakub Stepien

DevOps & System Engineer

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Summary

Mid DevOps Engineer (4 years of experience) with strong knowledge in system maintenance and Linux administration. Well-acquainted with networking, Docker, Kubernetes, Helm and several cloud platforms. Always willing to learn new frameworks and tools. Enjoys working with terminal applications. Loves breaking and fixing stuff, with the emphasis of as little downtime as possible preferably none.

Experience

Grid Dynamics | DEVOPS ENGINEER
Aug 2023 - now | Cracow, Poland

Docmatic.ai (formerly Random Forest) | DEVOPS & SYSTEM ENGINEER
Sep 2018 - Jul 2022 | Cracow, Poland

➔ Planning and maintenance of networking infrastructure - setting up servers (HP - iLO, Intel - BMC), switches and routers (MikroTik), network security and reliability

➔ Maintenance and oversight of several Proxmox hosts used for virtualization of multiple Kubernetes clusters deployed on-premises

➔ user and developer resource access management with the use of the LDAP protocol and VPN servers (Wireguard, OpenVPN) - custom solutions

➔ Configuration of site-to-site VPN servers and clients for multi cloud encrypted communication

➔ Development and deployment of Python based micro-services using Flask and Django as back-end frameworks, with the emphasis on containerization, testing, deployment and monitoring both to the clients with on-premises infrastructure as well as to the ones using diverse cloud providers

➔ Working on test, build and deploy pipelines using GitLab CI/CD tools

➔ Assessment of resource usage of non-containerized applications

➔ Migration of on-premise resources onto the cloud

➔ Extensive communications with developers as well as clients' IT departments aimed at troubleshooting their infrastructure and deployment issues

➔ Maintenance of multi-user Jupyter based kernel hub with different kernel bases (Tensorflow, PyTorch, and other Anaconda based)

➔ Introduction of Docker to NLP services, serverless (OpenFaaS) deployment onto the cloud

➔ Mentoring and coaching of new developers

➔ Occasional back-end development of Django based applications

Skills

PROGRAMMING

Experienced:
Python • UNIX Shell Script

Familiar:
Rust • Golang • C • Lua • JavaScript • Nix • LaTeX

TOOLS

Git • OpenSSL, PGP • GNU Make, Mason • Vi/Vim/Neovim • Træfik, NGIИX, HAProxy • OpenFaaS • Docker, Containerd, Podman • Systemd, OpenRC • OpenLDAP, SASL, Oauth 2.0 • Ceph, LVM • Kubernetes, Helm • Terraform, Ansible • Prometheus, Grafana, Loki • Sonatype Nexus • Gunicorn, uWSGI, Waitress • gcloud, aws-cli, hcloud, scw-cli

MANAGEMENT TOOLS

• **Communication**
Slack • Rocket.Chat • Microsoft Teams • Trello • Shortcut •

LINUX DISTRIBUTIONS

Arch • Debian, Proxmox • Ubuntu • CentOS, AlmaLinux • NixOS

OTHER OPERATING SYSTEMS

MacOS • FreeBSD • Windows

Languages

POLISH
mother tongue

ENGLISH
working proficiency

GERMAN
proficiency with C2 Goethe Institute GDS certificate

NORWEGIAN (BOKMÅL)
self-taught beginner

PROJECTS

Centaur | MICRO-SERVICE BASED DOCUMENT MANAGEMENT AND ML/NLP PROCESSING SYSTEM

- ➔ Software: Django, PostgreSQL, Redis, RabbitMQ, Elasticsearch, Docker, Kubernetes, NGINX Ingress Controller

Corkscrew PROXY SYSTEM THAT CONNECTS EXTERNAL PROXIES FOR SCRAPING PURPOSES

- ➔ Software: Golang, Docker, Kubernetes

CLOUD PLATFORMS

AMAZON WEB SERVICES (AWS)
EC2
VPC
Elastic Kubernetes Service (EKS)
Elastic Container Registry (ECR)
Elastic Load Balancing (ELB)
S3

GOOGLE CLOUD PLATFORM (GCP)
Compute Engine Compute
VPC networks
Kubernetes Engine (GKE)
Cloud Run
Artifact Registry
Load Balancing
Cloud Storage

HETZNER CLOUD
Servers, Volumes, Networks, Firewalls, Security

SCALEWAY
Compute - Instances
Containers - Kubernetes, Container Registry
Storage - Object Storage
Network - VPC, Private Networks, Load Balancers, Domains and DNS

PROTOCOLS

application layer
SSH • DNS • SMTP • IMAP • LDAP • DHCP • HTTP/HTTPS • TLS • Wireguard • OpenVPN
transport layer
UDP • TCP
network layer
IPv4 • IPv6 • ICMP • IGMP • IPsec
data link layer
VLAN

EDUCATION

CRACOW UNIVERSITY OF ECONOMICS
Sep 2017 - Sep 2021

BACHELOR'S DEGREE IN APPLIED INFORMATICS - SOFTWARE ENGINEERING

Thesis: "Rust a possible successor to C - overview of the language and sample programs"
Result of graduation: 5.0 / 5.5