

Switzerland Swiss, 37 years old

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I am a highly skilled and versatile professional **BLANKPOSITION** with extensive experience in managing and setting up large **Kubernetes production clusters** across all major cloud providers. Expertise includes leveraging best practices such as **Test-Driven Development**, **Infrastructure as Code**, **Observability**, and **Zero Trust security**.

Adept at **implementing** and **optimizing infrastructure**, **automating processes**, and enhancing system reliability using advanced technologies like **Pulumi**, **AWS SDK/AWS CDK**, **ArgoCD** and **Python**. Proven track record in managing large-scale production deployments, improving operational efficiency, and ensuring **high system uptime** and **stability**. Strong background in developing scalable **cloud infrastructure**, creating robust **monitoring systems**, and streamlining incident response processes.

Exceptional **problem-solving abilities**, a proactive mindset, and a commitment to continuous improvement. Seeking new opportunities to leverage expertise in **cloud infrastructure management**, and system reliability to **deliver impactful solutions**.



 $\textbf{Solution Design and Implementation} \ | \ \textit{Infrastructure Optimisation} \ | \ \textbf{System Reliability Engineering} \ | \ \textit{AWS Cloud Services} \ | \ \textbf{Kubernetes Management} \ | \ \textit{GitOps Implementation} \ | \ \textbf{Continuous Integration/Continuous} \ | \ \textit{Continuous Integration/Co$

Areas of Expertise

Deployment (CI/CD) | Application Scalability | Monitoring, Logging and Metrics Aggregation | Python & Rust
Development | Terraform, Terragrunt and Infrastructure as Code (IaC) | Docker and Containerisation | Helm
Template Engineering | Prometheus and Grafana | Agile Methodologies | Process Automation | Test-Driven
Development (TDD) | Requirements Gathering | Documentation Enhancement | Incident Response Management



Platform Engineer Consultant - Freelance DevOps & Site Reliability Engineer

Remote 📍

Mar. 2024 – Present 📆

- PIVA CONSULTING
- @ Bridging the gap between development and operations teams, fostering seamless collaboration and communication.
- Implementing efficient workflows and advocating for best practices, driving enhanced software delivery processes, resulting in improved system reliability and accelerated deployment cycles.

Senior Platform Engineer

Remote ?

ZF GROUP

Feb. 2022 - Aug. 2024 📆

- Deploys centralised ArgoCD across all AWS EKS accounts, standardising the GitOps approach and managing over 50 services per cluster, effectively handling approximately 1300 applications.
- Develops a **Rust application** to enable smooth connectivity for developers to private VPCs, EKS clusters, and endpoints, with supporting infrastructure deployed using **AWS CDK in Python**.
- Enhances the developer platform by creating and contributing to the **central API** for Cloud Platform Engineering's **Internal Developer Platform** and creating a command line tool, utilising **TDD methodology** to achieve a 99% test code coverage.
- Centralises metrics aggregation and Grafana dashboards across 20 AWS EKS clusters by rolling out Thanos for all Kube-Prometheus-Stacks, significantly enhancing the platforms' observability with monitoring and logging coverage.

 - ⊚* ⊚* Optimised GitOps workflows, automating manual tasks and reducing team chore time by 80%, enhancing deployment accuracy and team productivity through continuous integration checks.
 - Created, and enhanced central API capabilities, **cutting down** the time needed for AWS ECR repository creation **by 90%, eliminating human errors** and improving **automation efficiency**.

Site Reliability Engineer

Remote 9

OPEN SYSTEMS

Oct. 2021 - Feb. 2022 📆

- Created a project integrating with a custom ticketing system database, successfully **reducing false positive alerts** and enhancing the precision of incident response mechanisms.
- **Engineered Helm templates** to ensure consistent and reproducible deployments of applications within Kubernetes clusters, thereby improving the reliability and efficiency of deployment processes.
 - * Implemented a proactive monitoring system that significantly reduced production incidents and **improved mean time to resolution** (MTTR), increasing system reliability and customer satisfaction.
 - * Achieved significantly reduced **false positive alerts** and streamlined application deployment in Kubernetes, enhancing system reliability and operational efficiency through targeted improvements.

Site Reliability Engineer

Remote ?

■ BESTMILE

Jul. 2019 – Oct. 2021

 Applied D.R.Y. principles using Terraform modules and Terragrunt, creating reusable configurations that streamlined infrastructure management and deployment processes.

- Automated infrastructure deployments with Atlantis and GitOps principles, enhancing consistency and efficiency while reducing manual intervention in deployment workflows.
- Migrated environments from GCP and Azure to AWS, including Kubernetes clusters to AWS EKS and Apache Kafka to AWS MSK, ensuring improved performance and scalability.
- Managed Kubernetes clusters by focusing on maintenance, security, and debugging, ensuring service stability and high availability across the infrastructure.
- Established logging and monitoring systems using Prometheus, Grafana, ElasticSearch, Kibana, Logstash, and Filebeat, enhancing observability and providing actionable insights into system performance.
- Implemented CI/CD pipelines with Bitbucket and Codefresh, using Helm and Helmfile for efficient package management, keeping Kubernetes base services up to date and enhancing deployment reliability.
 - or or Achieved exceptional system uptime by implementing automated monitoring and alerting tools, significantly reducing downtime and ensuring continuous service availability.
 - 🎯 💕 Successfully established, maintained, and enhanced a robust infrastructure from the ground up, adhering to Site Reliability Engineering (SRE) best practices.
 - or or Successfully scaled infrastructure to handle substantial increases in user traffic during peak times, ensuring a smooth user experience without service interruptions.
 - ⊚ Streamlined incident response by developing and deploying a robust incident management framework, including runbooks and automated remediation processes, leading to quicker resolution of issues.

Python Developer

Geneva Switzerland 📍

PICTET PRIVATE BANKING

- May. 2019 Jul. 2019 📆
- Developed and implemented an **Object-Relational Mapping** system for the Neo4J database within the project scope, utilizing the latest **Python** libraries to enhance data access and manipulation efficiency.
- Refactored critical components of legacy code, focusing on optimizing performance and responsiveness. Implemented Python best practices to modernize the codebase, resulting in more maintainable and efficient software.
 - and timely business decisions.

Python Developer

Geneva Switzerland ₹

Jun. 2017 - May. 2019 📆

EUROPEAN BROADCASTING UNION

- Developed the backend application for the European Championships 2018, enabling live ingestion and streaming of sports data events to
- · Led a production pilot using RDF4J Semantic Database for live sports streams, creating a Python-based REST API with flask and an asynchronous backend with RabbitMQ, celery, and lxml for XML to RDF conversion.
 - ⊗* ⊗* Production pilot during European Championships 2018 (Glasgow and Berlin), ingest of Live Sports Data.

Sofware Developer Jr.

Geneva, Switzerland 📍

■ DUCOMMUN DIT BOUDRY SOFTWARE CONSULTING

Feb. 2017 - May. 2017 📆

- Utilized Scala frameworks (PlayFramework and Slick ORM) for backend development, implemented a simple akka Actor Model, and PostgreSOL as Database. All components were containerized using custom docker images.
- Created the frontend with Angular2 JS and Typescript, employing the Observer Pattern for efficient state management.

💆 Education .

2014 - 2018 **B.S. in Computer Science and Engineering**, HES-SO – hepia (evening courses)

Geneva, Switzerland

2005 - 2008 Bachelor in Hospitality Management and Marketing, Glion Institute of Higher Education

Bulle, Switzerland

Extracurricular.

HOBBIES

- Spoken Languages: Italian: Fluent English: Fluent French: Fluent.
- HomeLab with multi-node and multi-arch K3S, GitLab and Gitlab-CI, Nextcloud, Syncthing, Media Center, Tailscale, Home-Assistant...
- Sports: Scuba Diving, Swimming, Squash, Basketball, my two Dogs.
- Music: Vinyl Record collector (1960's 1980's).