

Alexei Samokvalov

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Home page	https://sam701.com/profile
Education	Computer science (diploma)
Focus Areas	<ul style="list-style-type: none">• Data Engineering• DevOps / MLOps• Distributed Systems
Social Networks	<ul style="list-style-type: none">• https://www.linkedin.com/in/sam701• https://github.com/sam701

Skills

Cloud Platforms	Google Cloud Platform, Amazon Web Services, Azure, OVHCloud
Programming Languages	Go (golang), Java (Spring Boot), Scala, Typescript (Next.js, react), JavaScript, Rust, Python, Elixir / Erlang
Infrastructure as Code (IaC)	Terraform, NixOS, Ansible, Salt
Cloud Infrastructure	Docker, Kubernetes, Helm, Jsonnet, AWS ECS, Nomad, Ansible, NixOS
Continuous Delivery (CI/CD)	Azure DevOps, Github actions, Gitlab pipelines, concourse CI
Monitoring / Alerting	Prometheus, Grafana, Alertmanager, Jaeger, Victoria Metrics, GCP Alerting, OpsGenie, PagerDuty, Thanos
Networking	Load balancing, DNS, Firewalls (iptables, nftables)
Log Processing	Elasticsearch, Vector, Loki, ELK, GCP Logging
HashiCorp Stack	Consul, Vault, Nomad, Terraform, Packer
Messaging / Queues	Azure Storage Queues, AWS SQS, AWS Kinesis, AWS Event Bridge, Kafka, MQTT, temporal.io, NATS, RabbitMQ
Relational Databases	PostgreSQL, MySQL, Oracle, Sqlite
NoSQL Databases	Apache Cassandra, DynamoDB, Redis, MongoDB, Elasticsearch, Rocksdb
Techniques	Microservices, Event-Driven Architectures, CQRS, Event Sourcing, Feature Toggles, Trunk-based Development, Chaos Engineering, Resilience Engineering

Projects

Since 09/2024	Robust and Scalable Blockchain Infrastructure <i>Sr. Platform Engineer</i> at 3box Inc
Tasks	<ul style="list-style-type: none">• Designing and maintaining robust, scalable blockchain infrastructure ensuring high availability and seamless performance across distributed networks
Technologies	Ansible, go (golang), python, Digital Ocean

02/2024 – 08/2024 Resilient Infrastructure for highly available Blockchain Services

DevOps Engineer

at iVerse Vision

- Tasks
- Setting up infrastructure for highly available blockchain services in GCP
 - Setting up logging, monitoring, and alerting for services running in GKE

Technologies GCP, Kubernetes (GKE), Terraform, MongoDB Atlas, MySQL, OVHCloud, OAuth, IAM, TypeScript (Next.js, react)

01/2022 – 12/2023 Vehicle Data Acquisition - AI Data Platform

AI Data Platform Engineer, Big Loop

at CARIAD SE

- Tasks
- Designing and implementing data ingestion pipeline for ML training
 - Designing and implementing Big Loop foundation platform
 - Designing and setting up highly available and scalable MQTT brokers
 - Setting up kubernetes cluster in Azure
 - Setting up networking for multiple AKS clusters
 - Securing kubernetes cluster using service mesh
 - Creating CI/CD and data pipelines
 - Maintaining Mender (OTA) in AKS
 - Designing and implementing distributed loosely coupled services using temporal.io

Technologies Go (golang), Python, Azure, Kubernetes (AKS), helm, linkerd, temporal, MLOps, Azure DevOps, loki, vector.dev, HiveMQ, Kafka, redpanda, Spark, Hive Metastore, Trino, JupyterHub, MLFlow, terraform, DCGM metrics collection, emqx, mender, chaos engineering

02/2019 – 12/2021 Consulting on Cloud Migration

Cloud Consultant / DevOps Engineer

at ProSiebenSat.1 Tech Solutions GmbH

- Tasks
- Supporting multiple teams on their way to AWS
 - Providing concepts and setting up logging and monitoring infrastructure for services in AWS and on-premise
 - Supporting operations and development departments on their movement to DevOps culture
 - Setting up cross account networking
 - Developing cross service authorization concept

Technologies Amazon Web Services (ECS, Fargate, VPC, Lambda, Direct Connect, Transit Gateway, Route53, API Gateway, Cognito, Secrets Manager, Security Hub, etc.), Terraform, Java (Spring Boot), Istio, Python, Bash, Docker, Vector.dev, Filebeat, Logstash, Elasticsearch, Elastic Cloud, FileBeat, Ansible, Prometheus, Grafana, gitlab, Azure, Azure AD

07/2018 – 12/2018 Consulting on Cloud Based AI Projects

Cloud Consultant

at Siemens AG

- Tasks
- Creating technical architecture concepts and PoC
 - Analysis and architecture of a service for machine learning (ML) inferences in AWS
 - Analysis of pattern matching algorithms and their application in cloud services
 - Analysis of approaches to distributed load balancing

Technologies

- Setup of distributed test system with ansible and packer

Amazon Web Services, Tensorflow, R, python, Docker, Ansible, Packer, Terraform, gitlab, Java Boot, Spring 5, WebFlux

07/2017 – 06/2018 Creating access control system in AWS for secured objects

DevOps Engineer
at BlueID GmbH

Tasks

- Creating technical architecture concepts
- Creating a docker cloud cluster based AWS ECS
- Implementing micro services in Go
- Implementing OAuth2 server with standard and custom flows
- Implementing deployment pipelines in gitlab with terraform
- Cloud infrastructure setup with ansible

Technologies

AWS (VPC, SG, ECS, ECR, EC2, CloudWatch, SSM, Aurora), Go (golang), Docker, terraform, packer, nomad, ansible, gitlab, concourse CI, prometheus, AlertManager, OpsGenie, OAuth2, Elasticsearch, Upsource, Agile development

07/2015 – 06/2017 Car Dealer Stock Management System in AWS

DevOps Engineer
at AutoScout24 GmbH / Online Car Platform

Tasks

- Design and architecture of a statistics engine for car dealers
- Analysis and migration of systems from an internal data center into AWS cloud
- Migrating existing applications from data center into AWS cloud
- Implementing micro services in Scala
- Implementing deployment pipelines
- Implementing micro service monitoring using DataDog, Kibana, Elasticsearch, CloudWatch
- Creating Ops tools in Go

Technologies

AWS (S3, EC2, CloudFormation, CloudWatch, Kinesis Stream/Firehose, Lambda, DynamoDB, RDS, IAM, ECS, SSM), Scala, Play Framework, Apache Kafka, Aurora DB, Docker, Ruby, Elasticsearch, Kibana, Go.CD, Github, OpsGenie, DataDog, Agile development

07/2011 – 05/2015 Web App: User Profile and Company Settings

Senior Software Engineer (team lead)
at Mercateo Services GmbH / Commerce

Tasks

- Technical team lead
- Analysis and design of business requirements
- Design of REST interface
- Setup of DevOps pipeline
- Design and implementation of REST services with Jersey
- Implementation of user interface with angularJS
- Implementation of backend business services

Technologies

Scrum, Java, JEE, JavaScript, AngularJS, HATEOAS, Mocha, PhantomJS, Git, JAX-RS, REST, Jersey Framework, JUnit, Node.js, Hibernate, JPA, Tomcat, Spring Framework, Eclipse, Oracle, Apache Cassandra

- 08/2011 – 10/2012** **Android Game: Zling**
Architect / Software Engineer
 at Private Project
- Tasks
- Game design <http://zling.de>
 - Implementation of asset pipeline
 - Implementation of server component on CentOS with go (golang)
 - Coordination of theme designer, musician and programming
- Technologies Java, OpenGL ES, Go, Python, Apache Ant, Eclipse, Blender
- 10/2008 – 06/2011** **Web Based Patent Management System**
Architect / Software Engineer
 at pol GmbH / IT Service Provider
- Tasks
- Requirement analysis
 - Design and Implementation of user interface in GWT with Sencha GXT
 - Setup of DevOps pipeline with Jenkins/Hudson
 - Testing linux cluster administration
 - Implementation of persistence tier in backend with Hibernate
 - Creating Reports with JasperReports
- Technologies Java, J2EE, GWT, Sencha GXT, REST, Git, Hibernate, JPA, TestNG, Arch Linux, Jenkins, Microsoft SQL Server, Continuous Integration, Eclipse
- 08/2004 – 09/2008** **Mobile Payment System**
Software Engineer
 at Softcon AG / IT Service Provider
- Tasks
- Design of authentication system based on PKCS12 certificates
 - Implementation of authentication server
 - Connecting authentication server to backend with JNI
 - Implementation of Mobile Payment System on Windows CE devices
 - Connecting of bluetooth portable printers on mobile devices
 - Implementation of separate components in C++
 - Maintenance of entire inventory software suit
 - Maintenance of PL/SQL scripts
- Technologies Java, Derby, Bouncycastle, Tomcat, JMS, JNI, C++, SVN, Eclipse, Oracle, SQL, PL/SQL

Languages

- German (fluent)
- English (fluent)
- Russian (native speaker)
- Lithuanian (basics)