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Selim Acerbas

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Basel, Switzerland

Summary

Systems Engineer with a strong background in cloud infrastructure, secure distributed systems, and automation. Hands-on experience developing machine learning pipelines, authentication systems, and scalable microservices. Specialized in Kubernetes, Go/Python, Terraform, and CI/CD. Passionate about abuse prevention, threat detection, and reliable infrastructure.

Technical Skills

Languages: Go, Python, Rust, C++, Bash, Lua, JavaScript, Dart
ML/AI: TensorFlow (familiar), NLP, deep learning fundamentals, abuse signal design
Cloud: AWS, GCP, Azure, Kubernetes, Docker, Serverless (Lambda, Cloud Functions)
Tools: Terraform, ArgoCD, Prometheus, Istio, Cilium, Jenkins, GitHub Actions
Security: IAM, WAF, OIDC, OAuth, SAML, Gatekeeper, Kyverno

Experience

Systems Engineer, Swisscom, Zurich   *Feb 2024 – Present*

- Developed Kubernetes-native banking applications with a focus on secure container orchestration (Istio, ArgoCD).
- Built and maintained CI/CD pipelines for rapid and secure deployment of services.
- Integrated advanced authentication protocols (OIDC, OAuth, SAML) to harden system access.
- Contributed to fraud-resilient system design via network policies and security automation.

DevOps Engineer, Capgemini, Frankfurt   *Apr 2023 – Feb 2024*

- Led deployment of serverless ML-based automation using GCP Cloud Functions, Pub/Sub, and Workflows.
- Engineered smart IoT microservices using AWS Lambda, API Gateway, and DynamoDB.
- Implemented machine learning signal pipelines for detecting access anomalies.
- Hands-on experience with abuse-prevention patterns in pharmacy data pipelines.

Software Developer (Working Student), Fraunhofer IGD   *2021 – 2022*

- Built sensor-integrated robot motion planning using C++ and Qt.
- Focused on safety-critical automation using microcontrollers and real-time signals.

Education

B.Sc. Electrical and Electronics Engineering, Dokuz Eylul University   *2016 – 2017*
B.Sc. Electrical and Electronics Engineering, Turkish Naval Academy   *2013 – 2016*

Certifications

- HashiCorp Certified: Terraform Associate (2023–2025)
- AWS Certified Cloud Practitioner (2023–2026)
- ProgrammingExpert, SystemsExpert, AlgoExpert (ongoing)