

# YURII SERHIICHUK

Head of DevOps | Cloud Architect

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Google Developer Expert in Google Cloud and Champion Innovator in Serverless App Development. Certified Google Cloud Architect and Data Engineer with 10+ years of enterprise experience leading Java and Python teams. Specializes in high-impact cloud optimization and zero-downtime migration, and in the practical application of AI in DevOps.

## EXPERIENCE

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### Head of DevOps | Cloud Architect

Jun 2024 – Present

Travelshift

Remote

- Own Travelshift's infrastructure end-to-end – platform, reliability, security, developer experience, and AI-assisted engineering.
- Cut multi-cloud spend ~65% – through cost-center tagging for cost visibility, right-sizing over-provisioned databases, Redis, and Kubernetes workloads, and consolidating databases into a single cloud.
- Led a four-years-stalled migration of a legacy monolith and microservices from AWS to GCP (GKE Autopilot), delivered in under 8 months with zero downtime – gradual 1%→100% traffic shifting and AWS DMS bidirectional database cutover.
- Lead the DevOps team and own cross-team architecture reviews and solution-design sign-off for new initiatives – driving architecture decisions and code review across engineering teams.
- Operate a production multi-cloud platform end-to-end – AWS (EC2, VPC, load balancing, VPN/private links, S3, Route 53, IAM, RDS, ElastiCache, Fargate, Lambda, DMS) and GCP (GKE Autopilot across ~3 clusters of 60–120 nodes, Pub/Sub, Cloud Tasks, Workflows, Cloud SQL, BigQuery, Memorystore) – with Istio, KEDA, and cert-manager on Kubernetes, managed-Prometheus observability, and all infrastructure-as-code in Pulumi (TypeScript, migrated from Terraform) so any engineer can adjust infrastructure safely.
- Own the Fastly CDN and edge platform – reconfigured it end-to-end in VCL (console, CLI, and Pulumi/Terraform), with edge rate-limiting and routing, and ran Fastly as the single control plane for the zero-downtime AWS→GCP migration's cross-cloud traffic split.
- Rebuilt incident management on PagerDuty – from 2 high-priority services to full per-service, database, and cache coverage with automated alerting, escalation routing, and post-mortem workflows.
- Own the secure SDLC – automated security scanning (gitleaks, AI-assisted review) in CI and centralized secrets management across Doppler, Google Secret Manager, and AWS Secrets Manager.
- Drove org-wide adoption of AI-assisted engineering – standardized on Claude Code, rolled out automated AI code review, and built MCP integrations for internal systems.

### Lead DevOps Engineer | Cloud Architect

Nov 2021 – Jun 2024

Travelshift

Remote

- Built the company's first AI assistant – an interactive AI travel guide combining pre-processed itinerary data with LLM APIs.
- Replaced the Google Maps routing API with a self-hosted OSRM service (car, train, and foot routing across Iceland and Europe), later adopted company-wide for significant cost savings.
- Architected the AI/data-generation platform for tight cost control – every subsystem scales to zero or runs fully serverless (Cloud Run, Cloud Functions, GCP Workflows) on reusable Pulumi (Python) components.

### Independent Consultant

Jun 2013 – Present

Upwork (Freelance)

Remote

- Select client engagements alongside full-time roles – embedded builder-consultant work on application development, AI systems, and cloud migration.
- AgencyEZ (US insurance platform) – ongoing architecture lead on AWS (Elastic Beanstalk, RDS, SQS, ElastiCache): Java/MySQL modernization, a from-scratch public API (OpenAPI), AI-powered document processing, an EDI-based carrier-reporting framework, and an offline encrypted enrollment app for restricted, no-internet environments.
- Built and operated a multi-year national serverless quiz platform for Università Bocconi (Cloud Run, Firestore, Flask, Angular) at near-zero idle cost.
- Led a team of 5 remote developers.

## Lead Engineer | Cloud Architect

Oct 2017 – Oct 2021

TeamDev

Ukraine (Hybrid)

- Lead developer for an image-processing cloud-based system.
- Lead engineer for a contract-only image-processing cloud platform – customer-facing, onboarding teams, and managing up to 5 engineers; architected on domain-driven design, event sourcing, and CQRS.
- Improved system architecture and infrastructure, leading to a 40% infrastructure cost decrease.
- Led the company through the GCP advantage-partnership journey, achieving Service and Build partnership.

## Java Software Engineer

Nov 2014 – Oct 2016

SYTOSS

Kharkiv, Ukraine

- Built and maintained billing and ordering systems for A1 Telekom Austria.
- Built and maintained A1 Telekom Austria's ordering & billing system (Java 7→8) on Tomcat/EJB with Apache Camel and Spring, integrating the Amdocs process manager.

## Junior Engineer

Feb 2014 – Nov 2014

Samsung R&D Institute Ukraine

Kharkiv, Ukraine

- Co-built a Django/Python platform for automated mobile-app security assessment – pulling apps from connected devices, disassembling them, and running static threat-analysis tooling for the security team.

## TECHNICAL SKILLS

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**Cloud & DevOps:** Google Cloud Platform, AWS, Multi-cloud, Kubernetes, Istio, Helm, Fastly CDN & edge (VCL, Signal Sciences WAF), Serverless, CI/CD (GitHub Actions, CircleCI, Cloud Build), Pulumi, Terraform, Observability (Prometheus, OpenTelemetry, Grafana), Secrets management (Doppler, Secret Manager), Load testing (k6)

**Languages:** Java, Python, Go, TypeScript

**Data & AI:** GenAI & AI agents, RAG (Firestore vector search), MCP, ETL, Data Engineering, BigQuery, LLM-assisted engineering

**Cloud & DevOps:** Google Cloud Platform, AWS, Kubernetes, Istio, Serverless, CI/CD (GitHub Actions, Cloud Build), Pulumi, Observability (OpenTelemetry, Prometheus, Grafana)

## CERTIFICATIONS

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**Professional Cloud Architect** – Google Cloud (expires May 2027)

**Professional Data Engineer** – Google Cloud (expires Sep 2027)

**Professional Cloud DevOps Engineer** – Google Cloud (expires Oct 2027)

**Professional Cloud Developer** – Google Cloud (expires Dec 2027)

**Certified Kubernetes Application Developer** – The Linux Foundation (expires May 2028)

**Kubernetes and Cloud Native Associate (KCNA)** – The Linux Foundation (expires May 2028)

**Oracle Certified Professional: Java SE 11 Developer** – Oracle (Apr 2021)

## AWARDS & ACHIEVEMENTS

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**Google Developer Expert** – Google: Recognized as a Google Developer Expert in Google Cloud and Modern Enterprise Architectures.

**Champion Innovator – Serverless App Development** – Google Cloud Innovators: Recognized as a Champion in Serverless App Development by the Google Cloud Innovators program.

**Travel-plan algorithm – US Patent 11,747,153** – USPTO (co-author)

## TALKS

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**Cloud Workstations: reusable development environments in the cloud** – GDG Cloud Fest Poland & DevFest Kraków 2025

## WRITING

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**From Autopilot to Standard GKE: The Key to 15x Cheaper Istio** – Google Cloud (Medium)

**Is the future of autonomous AI agents already here? Jules API and MCP** – Google Cloud (Medium)

## EDUCATION

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**Master of Science**, Kharkiv National University of Radioelectronics – Security of Information & Communication Systems