

Yauhen Yakimovich

Cloud, Platform, Security and AI Architect.
DevSecOps and SRE. Former CTO.

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SUMMARY

> Architect and hands-on engineer with 15 years of building production technology platforms in Switzerland across research, startups, banking and insurance. Builds, migrates and secures business-critical systems on Microsoft Azure, Google Cloud, AWS, OpenShift and OpenStack, increasingly for data and AI workloads.

SKILLS

Cloud platforms	Microsoft Azure (Azure landing zones, AKS, Azure Database for PostgreSQL Flexible Server, Azure Data Factory, Azure Policy), Amazon Web Services, Google Cloud Platform (GKE, BigQuery), OpenShift, OpenStack, Linux.
Infrastructure and orchestration	Kubernetes, Docker, Helm, Helmfile, Kustomize, Flux, Terraform, Terragrunt, Crossplane, Ansible, ARM templates, Bicep, Infrastructure as Code (IaC).
CI/CD and delivery	Azure DevOps, Azure Pipelines, GitLab CI, Jenkins, GitHub, CircleCI, Maven, Artifactory, xRay, SonarQube, Flyway, JUnit, test-driven development, bill-of-materials release management.
Data architecture and integration	Databricks, BigQuery, Apache Spark, Azure Data Factory, data modelling, relational and analytical data models, event-driven and streaming integration patterns, ETL, Apache Kafka, Luigi, PostgreSQL, Azure Database for PostgreSQL Flexible Server, Redis, Couchbase, IBM MQ.
AI and machine learning	machine learning pipelines, scikit-learn, Spark, computer vision, generative AI (GenAI) integration via LLM APIs (OpenAI, Anthropic, Azure OpenAI), model routing, inference and serving, local LLMs, PyTorch, Transformers, MLOps and LLMOps.
Security	DevSecOps, role-based access control (RBAC), Azure Managed Identity, Azure Active Directory / Microsoft Entra ID, OAuth2, SAML2, LDAP, single sign-on, mutual TLS, secrets management, HashiCorp Vault, OWASP, ISO 27001, Azure Policy, WAF, Aqua, NexusIQ, Qualys, AppArmor and SELinux hardening, OpenShift security context constraints, stunnel, encryption at rest and in transit, secure networking and bastion tunnelling.
Programming	Python, Java (Spring Boot), C# and .NET, TypeScript and JavaScript, Go, Rust, Solidity, Groovy, Bash, PowerShell, SQL.

Operations and leadership	Dynatrace, monitoring and telemetry, incident post-mortems, runbooks, site reliability engineering (SRE), high availability and disaster recovery, release management, architecture workshops, team leadership, including nearshore teams, Scrum, Kanban, SAFe.
Developer Experience	automation, platform standards, developer onboarding, technical documentation, workshops.
Product and technical leadership	product ownership, technical leadership, CI/CD roadmaps, architecture, stakeholder management, democratic and coaching leadership styles, Scrum, Kanban, SAFe.
CI/CD and software delivery	Azure DevOps, Azure Pipelines, GitLab CI/CD, Jenkins, GitHub, CircleCI, Maven, Artifactory, xRay, SonarQube, Flyway, JUnit, TDD, automated integration testing, artifact management, release management.
Cloud native and IaC	Azure (AKS), AWS, Google Cloud (GKE), OpenShift, Kubernetes, Docker, Helm, Helmfile, Kustomize, Flux, Terraform, Terragrunt, Crossplane, Ansible, Bicep, ARM templates, Infrastructure as Code.
Security and compliance	DevSecOps, RBAC, Managed Identity, Microsoft Entra ID, OAuth2, SAML2, SSO, mTLS, Vault, OWASP, ISO 27001, Azure Policy, WAF, Aqua, NexusIQ, Qualys, secrets management.
Platform operations	production support, observability, incident management, post-mortems, runbooks, SRE, high availability, disaster recovery, operational handover, Dynatrace.
Software engineering	Python, Java / Spring Boot, C# / .NET, TypeScript, Go, Rust, Bash, PowerShell, SQL, PostgreSQL.
AI integration	GenAI integration via LLM APIs (OpenAI, Anthropic, Azure OpenAI), model routing.

EXPERIENCE

Cloud DevOps Engineer

September 2025 to present

Allianz, Zurich (contract via Oliver James; initial assignment to March 2026, resumed June 2026)

- Leads the design and implementation of Allianz Group's Azure Database Migration Readiness initiative for PostgreSQL Flexible Server in the Future Cloud Platform programme, setting a standardised, secure foundation for enterprise-scale PostgreSQL modernisation across business domains and coordinating pilot migrations to validate adoption.
- Designed the Permission Management Automation (PMA) framework, an infrastructure-as-code and database-as-code model for PostgreSQL cloud environments that automates provisioning and role and permission governance, reducing operational complexity while improving security, compliance and auditability.
- Designed the solution that maps centrally governed Microsoft Entra ID groups onto the PostgreSQL role framework, on top of the company's existing identity governance process: a grant on Azure Database for PostgreSQL Flexible Server follows from group membership, and is governed and audited through that process rather than beside it.
- Built a Java and Spring Boot integration test suite that validates the permission models, role hierarchies and automation scenarios of the framework for correctness, resilience and production readiness.

- Defined platform standards for Azure PostgreSQL Flexible Server covering dynamic scaling, high availability and geo-replication, balancing cost efficiency, resilience and operational agility.
- Developed a structured PostgreSQL role framework (pge_* roles) as a unified, policy-driven access model that streamlined migrations and eliminated role conflicts.
- Established Flyway as the standard database migration framework, integrating versioned, automated schema evolution into enterprise CI/CD and release processes for DBA and engineering teams.
- Integrated Dynatrace monitoring across hybrid environments and established operational runbooks to improve transparency and reliability.
- Designed secure connectivity with private bastion tunnelling inside controlled Azure landing zones, aligned with enterprise security standards.
- Facilitated workshops and stakeholder meetings across architecture, security, DBA and platform teams, driving adoption of the framework across organisational units.
- Designed an AI routing API, a controlled abstraction over LLM and model services for enterprise applications, with provider and model selection and fallback, authentication, quotas and policy enforcement, streaming, and observability of latency, token usage and cost.
- Extended the DevOps toolchain (Jenkins, GitHub, SonarQube, Artifactory, xRay) and CI/CD pipelines on Azure and AWS, and onboarded international teams through knowledge transfer and operational handover.

Lead Cloud Architect

October 2024 to August 2025

UBS, Zurich (contract via Tech Mahindra)

- Led the migration architecture for a heterogeneous wealth management application estate from on-premise infrastructure to Microsoft Azure, defining the Azure Kubernetes Service (AKS) containerisation strategy, onboarding path and CI/CD roadmap.
- Co-designed the data and integration architecture for near real-time wealth management transaction processing, including CAMT.053 data flows, Azure Data Factory, Databricks and AKS microservices for event-driven ETL processing.
- Integrated the delivered solutions with the bank's internal permission governance mechanism, itself integrated with Microsoft Entra ID, through which access at Azure subscription level was requested and granted, so that the platform work stayed inside the established, compliant access process.
- Implemented multi-project GitLab CI/CD pipelines for continuous delivery and automated infrastructure provisioning with Ansible, including testing and release-management requirements.
- Designed enterprise security policies for sensitive financial applications in C# and .NET, integrating Azure Active Directory (now Microsoft Entra ID) authentication with OAuth2, SAML2, LDAP and granular role-based access control (RBAC).

- Containerised an IBM MQ .NET/C# client for a restricted OpenShift environment governed by AppArmor and enterprise security policies, resolving TLS handshake and permission constraints with a layered stunnel-based isolation strategy.
- Acted as single point of contact between the delivery team and project stakeholders, authored functional and technical specifications, and mentored engineers.

Security Architect, DevOps and Cloud Engineer

July 2019 to June 2024

Swiss Re, Zurich (contract via Swisslinx)

- Designed and supported the Azure infrastructure and security architecture of the IETV platform (IFRS delivery), a multi-million-franc, mission-critical microservice and event-driven system.
- Automated environment provisioning with Terraform and integration testing in Azure DevOps pipelines, and bootstrapped microservices with Kubernetes init-container patterns for environment-specific configuration.
- Co-designed the secure microservice architecture with Azure Managed Identities for least-privilege access and mutual TLS between Kafka and PostgreSQL.
- Set up the application identities for the platform's microservice API backends on Azure Kubernetes Service: Azure Active Directory (now Microsoft Entra ID) app registrations and the enterprise applications behind them, so that each backend of the IFRS application authenticated as an identity of its own.
- Used Azure Active Directory (now Microsoft Entra ID) administrative units to scope the workload identities of the platform's domain-driven architecture, separating the identities and groups of different business domains into their own administrative boundaries instead of one undifferentiated directory scope, mirroring the isolation model used elsewhere on the platform.
- Led the deployment of Azure Data Factory and Databricks from governed artifact feeds under strict security and compliance requirements, integrating data workflows into the DevOps cycle.
- Co-developed a bill-of-materials release management strategy that tracked components, evidenced compliance and gated production releases, the control point where technical risk was reviewed before go-live.
- Secured the CI/CD process for Infrastructure as Code and Spring Boot and Python microservices: Docker registry policies, Aqua, NexusIQ and Qualys scanning, secrets management, token rotation for human and non-human identities, and encryption at rest and in transit.
- Designed high-availability and disaster-recovery strategies with multi-zone deployments for the event-sourced platform, protecting the event store and guaranteeing replayability, and owned the security incident process.
- Consulted with the Automation Lead on the platform's network layouts and negotiated integration and segregation topics with the central network teams.

- Owned architecture governance and standards for the platform: Azure Policy guardrails, Azure WAF, the Azure Active Directory and IAM integration, and compliance with company-wide digital governance and audit requirements, from design through production implementation.
- Contributed to strategic planning and high-level cloud architecture covering scalability, fault tolerance, security, DevSecOps and operational efficiency.
- Organised post-mortems, produced the technical documentation and standards, and ran cross-team workshops and knowledge-sharing sessions on ISO 27001, SAFe and OWASP practices, training other engineers.
- Designed the observability concept, logging and telemetry for VMs, stateful and stateless workloads, Kubernetes and container instances, with test-driven DevSecOps practices including blue/green and canary deployments.

Chief Technology Officer and Co-founder

January 2018 to June 2019

Crypto Real Estate AG, Zug

- Rebuilt convertia.io, the KYC onboarding product, into a white-labelled service on Kubernetes and Google Cloud, live with its first B2B customers.
- Worked directly with FINMA through a series of regulatory classification sessions, clarifying the regulatory treatment of a new financial product.
- Designed the convertia.io back end as horizontally scalable Eureka/Netflix microservices, with UAA carrying authentication and authorisation for the Angular front end.
- Designed the Management and Investment Assistant (MIA), a central investment management tool, from concept through prototype to a 64-page technical paper.
- Led three delivery teams, partly nearshore, one each for the website, the platform back end and the Ethereum smart contracts, under a single architecture.
- Designed the security token protocol behind the SwissRealCoin offering, down to the Ethereum smart contracts that would enforce it.

Chief Technology Officer

September 2016 to December 2017

PriceHubble AG, Zurich

- Delivered the property valuation and appraisal product from early MVP to a full-scale B2B service sold to banks, insurers and real estate clients, reaching alpha in 2 months and a full product in 8 months and attracting the first paying customers and significant investment.
- Led, and contributed hands-on to, the end-to-end machine learning production lifecycle: data modelling and preparation, scikit-learn model training on Spark and Luigi pipelines, then validation, packaging and periodic deployment of trained models into the production APIs, on CI/CD and Kubernetes (GKE) on Google Cloud.
- Used BigQuery on the Google Cloud data stack behind the valuation product, alongside the Spark and Luigi data pipelines.

- Set up DevOps with CI/CD infrastructure on Kubernetes (Google Kubernetes Engine) and Google Cloud, and designed the back-office system for billing and user management.
- Managed a team of 5 to 9 engineers, and set up and led an outsourced nearshore development unit alongside it, introducing Kanban and Scrum across both and providing technical and security expertise.

Research and Development Software Engineer

September 2011 to August 2016

University of Zurich, Zurich

- Built an OpenStack private cloud and big data storage for Science IT with GlusterFS and XFS, including network and parallel storage systems and KVM and VMware ESXi virtualisation.
- Designed and automated large-scale data handling for Science IT: distributed big data processing with Spark and high-throughput machine learning, image processing and analysis workflows across HPC and HTC clusters (SLURM, Platform LSF, ETH Zurich Brutus) on parallel storage and network systems, and contributed to the elasticluster and GC3Pie open-source workflow tools.
- Developed and published algorithms and statistical methods for image-based biology, co-authoring peer-reviewed publications.

EDUCATION

2008 to 2009	Integrated PhD programme in Mathematics, Jacobs University Bremen, Germany.
2004 to 2008	Graduate School, Belarusian State University of Informatics and Radioelectronics (BSUIR), Minsk, Faculty of Computer Networks and Systems.
2004 to 2005	Master of Science in Engineering, BSUIR, Minsk.
1999 to 2004	Diplom-Ingenieur in Software Development, BSUIR, Minsk, banking systems specialisation.

PUBLICATIONS AND LANGUAGES

“Multiscale chromatin dynamics and high entropy in plant iPSC ancestors”, Journal of Cell Science, May 2024.

“Infectio: a generic framework for computational simulation of virus transmission between cells”, mSphere, February 2016.

“Computer vision for image-based transcriptomics”, Methods, September 2015.

“Rarefied data compression method”, January 2008.

Languages: English and German (fluent, written and spoken), Russian, Belarusian, Polish.