

SERGHEI IAKOVLEV

Senior Principal Software Engineer

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SUMMARY

Software engineer since 2004, at airSlate since 2015 — senior engineer, then software architect, then director of an organisation of 20 teams and 90+ engineers, now senior principal engineer on AI agent infrastructure. Writes and maintains Sortie, an open-source orchestrator for coding agents.

EXPERIENCE

Senior Principal Software Engineer

2025–present

airSlate – Wrocław, Poland

- Set technical direction for AI agent infrastructure running in production: orchestration patterns, workspace isolation, stall detection and cost controls.
- Standardise framework selection and a zero-dependency deployment toolchain for development with AI agents, replacing per-team integrations with centralised agent skill design.
- Operationalise LLM use with observability, reproducibility and adapters kept isolated from the core systems they serve.
- Write production code on that infrastructure alongside the architecture and design-review work.

Director of Engineering

2021–2025

airSlate – Wrocław, Poland

- Led an engineering organisation of 20 teams and 90+ engineers.
- Reduced the organisation's engineering spend by more than 30%.
- Standardised SDLC practice across that organisation, covering quality assurance, product performance and security.
- Supervised and mentored the organisation's software architects.

R&D Team Lead / Engineering Manager

2021

airSlate – Kyiv, Ukraine

- Built load testing on Scala and Gatling, with results in InfluxDB and Prometheus surfaced through Grafana.
- Designed the public API and prototyped CI/CD tooling for the group.

Software Architect

2020–2021

airSlate – Kyiv, Ukraine

- Owned design and design review for workflow-automation features and internal products.
- Built container infrastructure on AWS (EC2, ECS, Route 53, S3, RDS, ElastiCache, IAM) with Docker and GitHub Actions, for high availability and auto-scaling.

Senior Software Engineer

2015–2020

airSlate – Kyiv, Ukraine

- Built backend services for PDFfiller.com in C++, C and PHP over MySQL, DynamoDB, Elasticsearch and RabbitMQ.
- Built an internal distributed file system with a WebDAV-like interface and an internal chaos-engineering service.

Senior Software Engineer — Genesis, Kyiv

2014–2015

Earlier roles: software engineering at NetGame, Art. Lebedev Studio, Blog.ru, Gamma Group, Arsilor and Tsar's courtyard, with self-employed full-stack work alongside them, 2004–2014.

OPEN SOURCE

Sortie

2026–present

Creator and maintainer – sortie-ai.com

- Wrote an orchestrator in Go that turns issue-tracker tickets into autonomous coding-agent sessions, each in an isolated workspace, followed through CI, review and merge.
- Ship it under Apache-2.0 as a single binary with no telemetry, with adapters for Jira, GitHub, GitLab, Linear and Gitea and for five coding agents.

cphalcon

2015–2020

Core team member – github.com/phalcon/cphalcon

- Worked on a web framework shipped as a C extension for PHP, written in C and Zephir against the Zend Engine.
- Contributed performance, security and stability fixes; wrote unit tests; ran packaging for Ubuntu and Windows, CI/CD and releases.

Zephir

2016–2020

Maintainer and co-owner – github.com/zephir-lang/zephir

- Maintained a compiler that turns a typed language into PHP extensions, emitting C against the Zend Engine.
- Worked on compilation speed and generated-code performance, fixed defects in both the compiler and the kernel and implemented new language features.

django-enviro

2021–2024

Maintainer – github.com/joke2k/django-enviro

- Maintained twelve-factor configuration for Django through environment variables.

Also: Codeception, a full-stack testing framework for PHP, as team member; jaeger-client-php, a distributed-tracing client for PHP, as maintainer since 2018; qless-php, gstore, bnf-mode and python-airslate as creator; esup and the Zephir IntelliJ plugin as maintainer.

TECHNICAL PROFILE

LANGUAGES	Python, C, C++, Go, PHP, Kotlin, Haskell, Emacs Lisp, SQL, Zephir, Scala
PLATFORM	AWS (EC2, ECS, RDS, ElastiCache, S3, Route 53, IAM), Kubernetes, Docker, Consul, RabbitMQ
DATA	PostgreSQL, MySQL, DynamoDB, Elasticsearch, Redis, InfluxDB
OBSERVABILITY	Prometheus, Grafana, ELK, Jaeger, New Relic
AI/ML	LLM orchestration, RAG, LangChain, agent architecture
SPOKEN	Russian (native), English (B2), Polish (B1), Ukrainian (comprehension)

PUBLICATIONS

Phalcon Cookbook, co-author – amazon.com/dp/B01MXDECCR

2016