

Alexey Khamitsevich

Senior Software Engineer | Solution Architect

Remote (UTC+3)

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Professional Summary

Senior Software Engineer and Solution Architect with 12+ years in backend and distributed systems. Architecture is the core of the work: system design, APIs, caching, and cloud (AWS and GCP), with a consistent focus on security, performance, and cost (\$100k+/year cache ownership savings on STOVA); applies AI in delivery (automated agents) and in systems (RAG, OpenAI API). Leads cross-functional delivery (including 2 feature teams, 15+ people) and payment integrations. Available for occasional on-site travel.

Professional Experience

Vention

Solution Architect

January 2021 – Present

Senior Software Engineer

August 2017 – December 2020

Software Engineer

April 2014 – August 2017

Client engagements, reverse chronological:

STOVA — Enterprise Event Management Platform

January 2026 – Present; April 2021 – August 2025

- Led 2 feature teams totaling 15+ members.
- Established code review processes (including automated agentic reviews) and technical standards, enforced by pipelines and agents.
- Architected a fail-open read-through caching layer from the ground up, decoupling business logic from the key-value store — ~\$100k+/year ongoing ownership-cost savings; reduced server load from parallel resource fetching on large customer accounts (thousands of items) through request consolidation and caching.
- Introduced a typed cache-key builder that became the team standard (50+ domain key builders), with exact-key, wildcard, and account/event-scoped invalidation; replaced ad-hoc cache usage platform-wide.
- Improved Lighthouse baseline score by 40% on public-facing flows (analysis through implementation, including Playwright E2E).
- Defined an eval harness with strict allow/forbid rules for automated agents.

- Increased report generation speed by 70% by eliminating long-running production queries that drove sustained high CPU; validated with data-equivalence regression (no logic drift).
- Reduced AWS log-infrastructure spend by \$25k+/year (spend-reduction strategy with quantified savings).
- Introduced and scaled the unit-testing practice from near-zero to 450+ test files with 90%+ branch coverage.
- Migrated legacy cron-based email marketing to AWS Lambda: faster large email blasts, zero stuck jobs, and 30% lower ongoing cost.

Tech: Node.js, PHP 8, TypeScript, Express.js, MySQL, MongoDB, Valkey, Memcache, Python, RabbitMQ, AWS, AWS SQS, AWS Lambda, API Gateway, Ansible, Bitbucket, Datadog, React, Angular, VanillaJS, Playwright, PHPUnit, eval harness, Cursor, GitHub Copilot, C4 Modelling, Monoliths

Creator Deck

September 2025 – December 2025

- Led architecture discovery workshops and authored a Solution Architecture Document (SAD) in C4, with GCP service selection, cost modeling, and implementation strategy.
- Architected an event-driven microservices system on Google Cloud Platform with KEDA auto-scaling, reducing infrastructure costs by 60% through scale-to-zero.
- Built a cache-first processing strategy with Redis, achieving 75%+ cache hit ratio and reducing database load by 70%.
- Designed an audit trail with configurable retention policies for GDPR/SOC2 compliance.
- Implemented RAG so collected crawler and discovery data could be analyzed from prompts rather than ad-hoc queries (OpenAI API).

Tech: Google Cloud Platform, Kubernetes, Docker, KEDA, Terraform, GitHub Actions, Node.js, TypeScript, Express.js, PostgreSQL, Redis, Ruby, GCP Pub/Sub, Playwright, Prometheus, OpenAI API, Claude, C4 Modelling, RAG

Barchart CmdtyView Platform

September 2018 – March 2021

- Architected backend services processing real-time, high-volume market data.
- Designed RESTful APIs with cached reads under 100 ms; Redis caching reduced database load by 60%.
- Led AngularJS to Angular (ES6) migration from design through launch, including client-side performance work on the Angular app.
- Implemented real-time visualization over WebSockets and a native desktop client in Electron.
- Established CI/CD; led 4 software developers (requirements, sprint planning, code review).

Tech: Node.js, TypeScript, Express.js, GraphQL, MongoDB, Redis, BullMQ, Docker, Angular, VanillaJS, D3.js, WebSocket, Electron, REST APIs, Jest, C4 Modelling

KYC Data Ecommerce Platform

December 2017 – August 2018

- Designed a secure document-processing API and the data architecture across backend and frontend microservices.

- Implemented OAuth 2.0 and JWT authentication.
- Integrated Stripe and Zoho; delivered CSV/XML reporting on high-volume data.
- Delivered KYC Data CCPA (April–June 2018): full-cycle consumer data access and suppression, requirements through launch (Angular, Laravel).
- Supported legacy services and production servers (DevOps); code review and sprint planning.

Tech: PHP, Node.js, TypeScript, Vue.js, Laravel, MySQL, Redis, WebSocket, Angular, OAuth 2.0, JWT, C4 Modelling

Additional client engagements:

- **PayPal Marketing Solutions** (October 2017 – November 2017) — CMS plugins for on-site marketing messages, requirements through marketplace delivery (including WordPress, Magento, Drupal, PrestaShop, OpenCart, and Joomla).
- **Wealth Management** (May 2017 – September 2017) — client-side reports for Silver Key Wealth Management; legacy rewrite and optimizations.
- **Freshly** (August 2015 – April 2017) — AngularJS application, mobile support, mailing templates, and WordPress support.
- **Etouches** (April 2014 – July 2015) — predecessor of STOVA; AngularJS/Node.js/Yii multi-tenant SaaS event platform; Authorize.net/Chase/Worldpay checkout; legacy performance work and code review.

Technical Skills

- **Architecture:** System design, Monoliths, Microservices, Event-driven systems, Serverless, API Gateway, Caching, C4 Modelling
- **AI:** Cursor, GitHub Copilot, Claude, Automated agents for Development & CR, OpenAI API, RAG, eval harness
- **Languages & runtime:** Node.js, TypeScript, JavaScript (ES6+), PHP, Python, Ruby
- **Backend:** Express.js, REST APIs, GraphQL, Laravel, Yii
- **Databases & cache:** MySQL, MongoDB, PostgreSQL, Redis, Valkey, Memcache
- **Messaging:** RabbitMQ, AWS SQS, Google Cloud Pub/Sub, BullMQ
- **Cloud & DevOps:** AWS, GCP, Docker, Kubernetes, KEDA, AWS Lambda, Terraform, Ansible, GitHub Actions, Bitbucket, CI/CD, API Gateway
- **Observability:** Datadog, Prometheus
- **Testing:** Jest, PHPUnit, Playwright
- **Frontend:** React, Angular, Vue.js, VanillaJS, D3.js, WebSocket, Electron

Education

- EPAM Master's Degree Program in Software Engineering — EPAM (2019–2021)
- Bachelor's Degree in Information Technology — Belarusian National Technical University (2009–2014)

Certifications

- MSDP Solution Architecture 2.0 — EPAM (Jun 2021)
- MSDP Delivery Management 2.0 — EPAM (Mar 2021)
- MSDP DevOps & Cloud — EPAM (Nov 2020)

- MSDP Delivery Management 1.0 — EPAM (Jun 2020)
- MSDP Solution Architecture 1.0 — EPAM (Apr 2020)
- MSDP Product Management — EPAM (Jan 2020)
- MSDP Engineering Excellence 360 — EPAM (Nov 2019)
- Scrum.org Scrum Developer Open Assessment — 100% (Jun 2020)
- Scrum.org Scrum Open Assessment — 90% (May 2020)

Languages

- English: Professional Working Proficiency
- Belarusian: Native
- Russian: Native