Danil Agafonov

Senior Staff Software Engineer with 16 years of experience

Vancouver, Canada | i@danil.codes, +1 (236) 515-5619 | Bachelor's degree in Computer Science | English (Full Professional Proficiency) | https://www.linkedin.com/in/danil-agafonov/

Professional experience

Diligent (previously known as ACL dba Galvanize) • *Senior Staff Software Engineer*　　　2022 to Present

- **Enterprise Communication Infrastructure:** Designed and built a multi-channel notification platform (email, push, in-app) processing 1M+ messages daily across 18 integrated applications with 99.99% uptime. Architected for horizontal scale using event-driven patterns on serverless infrastructure, enabling product teams to add new notification channels without platform changes.
- **Identity & Authentication Systems:** Built centralized identity synchronization serving 19 downstream systems, eliminating inconsistent user states across the product portfolio. Delivered OAuth/OIDC infrastructure for UAE and GovCloud regions, unblocking international expansion and government sector sales.
- **AI-Native Engineering Transformation:** Architected enterprise AI development infrastructure using AWS Bedrock, solving compliance and cost barriers that blocked direct vendor access. Established usage observability, enabling governance at scale. Drove adoption across 60 engineers and product managers through documentation, hands-on enablement, and cross-team EM partnerships — achieving near-universal daily usage. Teams leveraged productivity gains to clear long-stalled backlog items and deliver rapid prototypes that accelerated product validation cycles.
- **Architectural Leadership:** Drove adoption of event-driven architecture across multiple global engineering offices, establishing patterns that replaced brittle synchronous integrations with resilient async workflows. Led technical decisions through Tech Council presentations and created reusable libraries (11 published packages) that standardized security practices across teams. Mentored engineers across 4 global offices.
- **Cost & Operational Excellence:** Achieved zero major production incidents across all owned services through defensive architecture practices. Drove infrastructure cost reductions of $500K+ annually through hands-on optimization and org-wide advocacy for serverless patterns — replacing RDS with DynamoDB, leveraging managed AWS services over deployed compute fleets, and teaching teams to avoid common cost traps in cloud architecture.

Keywords: AWS (ECS, EC2, CloudWatch, IAM, Lambda, S3, RDS, CodePipeline + CodeBuild, API Gateway, SQS, SNS, EventBridge, DynamoDB, SSM Parameter Store, SES, etc.), AWS CDK, Terraform, JavaScript/TypeScript (for microservices and front-end), Node.js, Ruby on Rails, Rspec, React.js, PostgreSQL, Redis, Elasticsearch, Linux, Docker, Kubernetes, GitOps, DevOps, CI/CD, Observability.

Flatstack LLC • *Lead (Principal) Software Engineer*　　　2017 to 2022

- leading/designing/developing/refactoring/launching 9+ projects (from scratch to production);
- direct communication with customers;
- training employees of the department in Frontend development + managing the Frontend Internships and being a mentor;
- participation in the recruitment and hiring processes (conducted 50+ technical interviews);
- supervising architecture, code and development process of projects.

Stack: Ruby On Rails, React.js, AWS, Vue.js, Angular.

Kazan Federal University and **Innopolis lyceum** • *Teacher (Programming courses for kids)*　　　2015 to 2016

The university administration invited me to teach web programming courses for children. A high level of expertise was required to ensure I would share reliable knowledge. It was a series of workshops spread throughout the year covering HTML, CSS, and PHP. I prepared a training program and used it twice: first for the university-based series of courses and then at Innopolis Lyceum.

Various personal, family, freelance and long term side projects • *Full Stack Developer*   <u>2009 to 2022</u>

Throughout the years, I've worked as a solo practitioner, developing projects and products from ground zero to production. I have gained extensive experience, including strong communication skills (working with businesses, understanding end-user needs, and direct customer communication), SEO, social media management, and robust technical skills (handling everything from architecture, infrastructure, back-end, front-end, and deployment to documentation independently). This work has also developed my discipline and resilience.

List of technologies I have used through the years: front-end (JavaScript/TypeScript, React (+preact), Server-Side Rendering, GraphQL, Apollo Server + React Apollo, styled-components, Angular, Angular.js, jQuery, Next.js, Webpack, Vite, WebSockets, Jest, Enzyme, Cypress.io, Ava, Playwright, Puppeteer, Hexo, Gatsby, middleman, CSS, SASS, LESS, PostCSS, CSS-in-JS, accessibility (a11y), Vue, npm, yarn, pnpm), databases (PostgreSQL, DynanoDB, MySQL, Redis, RabbitMQ, Elasticsearch, MongoDB), back-end (Node.js, Ruby on Rails, Go, Java, PHP, Python, microservices, event-bases architecture, CQRS, etc.), infrastructure (AWS, GitOps/DevOps, Terraform, CloudFormation, AWS CDK, Linux, bash scripting, Kubernetes), PHP frameworks and CMS (Phalcon, Kohana Framework, Yii, Laravel, Wordpress, Joomla), git, test-driven development (TDD), domain-driven development (DDD), CI/CD and list goes on and on…

Example - gold-kamea.ru (no longer maintained by me):

- Developed a full-cycle e-commerce solution which enabled business growth (5x over the years)
- Achieved 99.9999% availability of a e-commerce storefront

Education

Bachelor's degree in Computer Science at Kazan Federal University (Higher Institute of Information Technology and Intelligent Systems) - 2014 to 2018