

Sergey Desyatkov

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Vancouver, BC (relocating from Calgary)

Senior Software Engineer

Senior full-stack engineer with 10+ years building backend and platform systems for fintech, SaaS and consumer products. Most at home with event-driven services, data pipelines and the developer tools other engineers rely on. Currently building AI developer tooling at Autodesk on AWS Bedrock: an automated code review platform, an AI agent platform and MCP servers. Previously led a large legacy-to-AWS data migration at AMA and built a Kafka-based workflow engine from scratch at Simplr.

Technical Skills

Backend: TypeScript, Node.js, NestJS, Express, Python, Java, Golang, C#, Kafka, GraphQL (Federation), gRPC, REST, PostgreSQL, DynamoDB, MongoDB, Redis, Prisma, CDC Pipelines, Event-Driven Architecture, Microservices

Cloud & DevOps: AWS, AWS CDK, Serverless (Lambda, Step Functions), AWS Glue, Docker, Kubernetes, Terraform, GitHub Actions, Jenkins, CI/CD, Infrastructure as Code

Frontend: React, Next.js, Angular, Micro-Frontends, styled-components, Storybook, SSR/SPA, HTML, CSS/SCSS

Observability & Security: Datadog, Grafana, OpenTelemetry, Kibana, OAuth2, JWT

Testing: Jest, Cypress, Playwright, React Testing Library, Selenium, Vitest

Data & Developer Tooling: PySpark, Hadoop, Monorepo Tooling, Backstage, Bash, Git

Professional Experience

Autodesk | Remote

Jan 2026–Present

Senior Full Stack Developer, Internal Developer Portal

- Build and maintain Autodesk's internal developer platform on Backstage, used by thousands of engineers across the company: React/TypeScript plugins and Node.js services for the service catalog, CI/CD deployment insights and project scaffolding.
- Designed and shipped an AI code review platform (Python/FastAPI on AWS) that reviews pull requests across the company. Moved review processing onto an SQS-based pipeline, which eliminated dropped reviews and let it scale to thousands of PRs.
- Architected an event-driven platform where AI agents take engineering tasks through research, planning, implementation and validation on their own. Built on SQS, Temporal and AWS Bedrock, with a Go-based local agent and full tracing in OpenTelemetry, Splunk and ClickHouse.
- Built reusable AI tooling that other teams use to ship LLM applications on AWS Bedrock: retrieval-augmented generation (RAG) pipelines, Model Context Protocol (MCP) servers, agent frameworks, and evaluation and observability.

AMA | Edmonton, AB

Dec 2024–Nov 2025

Developer IV (Senior Full-Stack Developer)

- Led the migration of membership data from legacy MSSQL to AWS, with a CDC pipeline processing 3M+ records a day (AWS Glue, PySpark, Hadoop). Built a config-based framework so teams could add new entity types without code changes, and validated data integrity before a zero-downtime cutover.
- Architected the membership and payments platform for 1M+ users on serverless, event-driven AWS (Lambda, Step Functions, Kafka, DynamoDB).

- Built and maintained 10+ backend services and workflows with AWS CDK (TypeScript), so teams could provision infrastructure and deploy on their own.
- Moved CI/CD for 4 teams to GitHub Actions with automated preview environments, making releases faster and more reliable.
- Mentored 3–5 developers on architecture and code review, and helped cut new-hire ramp-up from 6 weeks to about 3.

Simpplr | Toronto, ON

Feb 2024–Jan 2025

Senior Software Engineer, Full Stack

- Built and ran backend services for a ledger-based rewards platform moving \$2M+ a month for enterprise clients, with a full audit trail. APIs over Kafka, REST, GraphQL and gRPC.
- Built a Kafka-based workflow engine from scratch that wires many company services into fully managed workflows, with parallel and sequential steps and end-to-end monitoring.
- Redesigned the transaction processing pipeline to cut latency and handle peak load. Maintained shared Node.js libraries used by several product teams, removing a lot of duplicated code.

WalkMe

Feb 2021–Jan 2024

Senior Software Engineer

- Maintained and extended the company's Kafka-based workflow manager, which coordinated dozens of internal services, and built saga orchestration for multi-step operations across services.
- Key contributor to splitting a monolith into 20+ independently deployable microservices, which cut the release cycle from 2 weeks to 2 days and ended cross-team release blocking.
- Built backend services in Node.js, NestJS, ASP.NET and Python for 1,000+ enterprise customers worldwide, and maintained the CI/CD pipelines behind them (Docker, Kubernetes, Jenkins, GitLab CI).
- Built REST, GraphQL and gRPC APIs handling 10K+ requests per second, and improved observability (Datadog, OpenTelemetry) and test coverage, which reduced production incidents.

Natural Intelligence

2016–2021

Software Engineer

- Built and ran microservices and React/Redux frontends on AWS (Node.js, MongoDB, GraphQL, MySQL) for consumer comparison sites with 5M+ monthly visitors.
- Set up E2E testing (Selenium, Cypress) and CI/CD, and built A/B testing infrastructure that contributed to a 15% revenue increase.

Profit Marketing

2007–2016

Frontend Developer to UX/UI Lead

- Designed and built 50+ client websites and web apps over 9 years, from UX/UI design to frontend code, and helped set the agency's frontend and design standards.

Education & Certification

Specialist Diploma (WES: Master's equivalent), 2003 | Magnitogorsk State University

Diploma - PHP Web Expert / Full-Stack Development, 2014–2015 | John Bryce College

Oracle WebLogic Server Certified Expert, 2012 - Java EE & Oracle Database | Oracle