

Seryozha Khachatryan

Architect/Team-lead Lead Full-Stack Engineer (AI-Driven Systems, Distributed Architecture & Payments)

SUMMARY

- Lead Full-Stack Engineer with 12+ years in distributed systems, AI-driven platforms, and payment ecosystems.
- Expert in event-driven microservices, multi-tenant SaaS, and secure fintech transaction processing.
- Proficient in Typescript, Node.js, React, AWS, Kafka, and AI integrations including LLMs and agentic workflows.
- Architected scalable real-time systems with WebSockets and built AI automation for KYC, risk management, and customer support.
- Strong background in system architecture, prompt engineering, and delivering complex, high-load applications in fintech and iGaming domains.

TECHNICAL SKILLS

Main Technical Skills	TypeScript (5 yr.), Node.js (5 yr.), React (5 yr.), NestJS (3 yr.), microservices architecture (5 yr.)
AI Tools & Assistants	Claude (1 yr.)
Programming Languages	TypeScript (5 yr.)
AI & Machine Learning	AI, AI-agents (1 yr.), ChatBot, Claude (1 yr.), DialogFlow (2 yr.), NLP, OpenAI (1 yr.), Prompt Engineering (1 yr.), RAG (1 yr.), Semantic Search (1 yr.)
JavaScript Frameworks	Express (5 yr.), NestJS (3 yr.), Next.js (3 yr.), Node.js (5 yr.), React (5 yr.)
JavaScript Libraries and Tools	Redux (3 yr.)
Salesforce Ecosystem	SalesForce Workflow (1 yr.)
Data Analysis and Visualization Technologies	AWS Athena (3 yr.), Decision Tree, ETL
Security	IAM
Databases & Management Systems / ORM	Apache Hadoop (2 yr.), Cassandra (2 yr.), Clickhouse (1 yr.), KDB (1 yr.), MongoDB (5 yr.), MS SQL Server Management Studio (1 yr.), PostgreSQL (5 yr.), Prisma (3 yr.), Redis (5 yr.), Vertica (2 yr.)
UI Frameworks, Libraries, and Browsers	SvelteKit (1 yr.), Tailwind CSS (3 yr.)

Cloud Platforms, Services & Computing	AWS (5 yr.), Azure
Azure Cloud Services	AAD (1 yr.), Azure Cloud Functions (1 yr.)
Amazon Web Services	AWS Athena (3 yr.), AWS EC2 (3 yr.), AWS EventBridge (3 yr.), AWS IAM (3 yr.), AWS Lambda (3 yr.), AWS RDS (Amazon Relational Database Service), AWS S3 (3 yr.), AWS SNS (3 yr.)
Industry Domain Experience	Fintech, Gambling & Betting, SAAS
QA, Test Automation, Security	A/B Testing, Automated testing, Performance Testing, Unit Testing
Deployment, CI/CD & Administration	Ansible (3 yr.), CI/CD (5 yr.)
Blockchain and Decentralized Software	Binance, KYC
Methodologies, Paradigms and Patterns	Distributed systems, Flows, microservices, microservices architecture (5 yr.), REST (5 yr.), System Architecture
Virtualization, Containers and Orchestration	Docker (5 yr.), Storage, Terraform (3 yr.)
SDK / API and Integrations	GraphQL (3 yr.), MCP (1 yr.)
Message/Queue/Task Brokers	Kafka (3 yr.)
Web/App Servers, Middleware	Nginx (3 yr.)
UI/UX/Wireframing	UI/UX
Mail / Network Protocols / Data transfer	WebSockets (3 yr.)
Other Technical Skills	AD, Alexa (2 yr.), Amazon Relational Database Service, Backend, Backoffice, computer science, Context, Data Analytics, iGaming, LLMs, Logging, Payment, RDS, Risk Management

WORK EXPERIENCE

Principal / Lead Full-Stack Engineer - EigerX (AI-Powered Multi-Tenant iGaming Platform)

Duration: Feb 2024 – Present

Summary:

- EigerX is a B2B multi-tenant iGaming platform enabling rapid launch and management of online casino businesses



- The project involved designing and implementing AI-driven operational systems, a scalable multi-tenant SaaS platform, and a full payment ecosystem integrating multiple PSPs

Responsibilities:

- Designed and implemented AI-powered operational systems using LLMs and agent-based workflows.
- Built AI agents for customer support automation, KYC verification, and risk management workflows.
- Developed prompt engineering and context management strategies for production AI systems.
- Integrated AI workflows with internal backoffice, payment, and compliance systems.
- Designed automation pipelines for operational decision-making and support processes.
- Worked on orchestration patterns for multi-step AI workflows and tool integrations.
- Architected a multi-tenant SaaS platform supporting multiple brands with scalable and isolated configurations.
- Owned end-to-end system architecture across payments, real-time data systems, and user management.
- Designed and implemented a distributed microservices architecture using event-driven communication (Kafka).
- Built high-performance real-time systems using WebSockets for live updates and high-frequency interactions.
- Architected and delivered a full payment ecosystem (crypto + fiat), integrating multiple PSPs (PayNetEasy, CoinPayments, Binance, QRMoney).
- Designed secure transaction flows handling sensitive financial data with high reliability and fault tolerance.
- Implemented Responsible Gambling systems (limits, restrictions, compliance mechanisms).
- Defined engineering standards, architecture guidelines, and best practices across the team.
- Led code reviews, mentored engineers, and improved system quality and delivery speed.
- Collaborated with product and stakeholders to deliver complex, high-impact features end-to-end.
- Integrated multiple game providers and aggregators (Alea, SofiSwiss, Betby).

Technologies: Typescript, Node.js, NestJS, Kafka, WebSockets, PostgreSQL, MongoDB, Redis, Docker, AWS (EC2, S3, RDS, Lambda, IAM), Terraform, Prisma, React, NextJS, Tailwind CSS, PayNetEasy, CoinPayments, Binance, QRMoney, AI: OpenAI, Claude, MCP, Function Calling, Agentic Workflows, Semantic Search, RAG, Prompt Engineering, Context Management, AI Agents

Lead Software Engineer - Github/NPM (Distributed Backend Services and Analytics Platform)

Duration: Mar 2021 – Jan 2024

Summary: Led the development and maintenance of distributed backend services and microservices for Github/NPM, focusing on scalable AWS infrastructure and data analytics pipelines to improve system performance and reliability.

Responsibilities:

- Led a team of 5 engineers and owned system architecture and delivery.



- Coordinated cross-team development and defined technical direction.
- Designed and maintained distributed backend services and microservices.
- Implemented AWS infrastructure, including Lambda, EventBridge, S3, and SNS.
- Built and optimized data pipelines and analytics workflows using Athena and S3.
- Improved system performance, logging, and reliability.
- Implemented secure data handling and system-level protections.
- Established CI/CD pipelines and deployment processes.
- Conducted code reviews and mentored developers.

Technologies: Typescript, Node.js, AWS (Lambda, EventBridge, S3, SNS), Athena, Docker, Terraform, CI/CD

Senior Software Engineer - Instigate Mobile (Full-Stack Optimization Platform)

Duration: Sep 2019 – Feb 2021

Summary: Developed and maintained a full-stack optimization platform focused on A/B testing and personalization to enhance user experience and system performance.

Responsibilities:

- Developed scalable backend services and frontend components.
- Integrated with Azure AD and distributed data systems.
- Improved system reliability and performance.
- Wrote unit tests and improved code quality standards.
- Collaborated closely with product and customers.

Technologies: Typescript, Node.js, React, Azure AD

Software Engineer - Instigate Mobile (Chatbot Platform with Configurable Decision Trees)

Duration: 2014 – 2019

Summary: Designed and implemented a chatbot platform featuring configurable decision trees and backend infrastructure for conversation management, integrating third-party NLP systems.

Responsibilities:

- Designed and implemented chatbot platform and backend systems.
- Implemented AWS-based file storage and deployment systems.
- Integrated third-party NLP systems such as Dialogflow and Alexa.
- Designed and implemented automated testing frameworks.
- Conducted performance testing and identified bottlenecks.
- Worked with large-scale data systems including Hadoop, Cassandra, and Vertica.
- Improved system reliability through testing and optimization.

Technologies: Typescript, Node.js, AWS, Dialogflow, Alexa, Hadoop, Cassandra, Vertica

EDUCATION

- **Bachelor's Degree in Computer Science and Informatics**
State Engineering University of Armenia
2012-2016

