

HAYK PETROSYAN

Senior Software Engineer

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PROFESSIONAL SUMMARY

Senior Software Engineer with 7+ years building and scaling full-stack production systems in TypeScript/Node.js (NestJS) and React/Next.js for enterprise and SaaS products. Specializes in event-driven backends (Kafka, RabbitMQ, AWS SQS), data-heavy React interfaces, PostgreSQL performance, and cloud delivery on AWS, Azure, and Kubernetes. Works directly with clients to shape user flows and UX, and builds the UI end to end. Works with AI coding tools (Claude, Cursor, ChatGPT) in day-to-day development. Mentors junior engineers through code and architecture reviews. Open to remote work and relocation.

TECHNICAL SKILLS

Backend	TypeScript, JavaScript, Node.js, NestJS, Express.js, REST, GraphQL, System Design, SOLID, Microservices, Distributed Systems
Frontend	React, Next.js, Angular, RxJS, Redux Toolkit, Zustand, D3.js, Electron.js, HTML5, CSS3, responsive UI, UX and user-flow design
Data & Messaging	PostgreSQL, SQL, MongoDB, Redis, Kafka, RabbitMQ, AWS SQS, data modeling, caching
Cloud & DevOps	AWS, Microsoft Azure, Docker, Kubernetes, Nginx, Linux, CI/CD, observability
Security & Testing	OAuth 2.0, JWT, RBAC, multi-tenant access control, Jest, React Testing Library, Playwright, Cypress
AI Tools	Claude, Cursor, ChatGPT (AI-assisted development, refactoring, testing, code review)

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Intetics Mar 2022 – Present

Design and build distributed production systems for enterprise customers across Europe and North America, owning work from architecture and backend services to frontend and cloud delivery.

Enterprise Event-Driven Platform TypeScript, Node.js, NestJS, PostgreSQL, MongoDB, Redis, Kafka

- Designed high-traffic services with clear service boundaries, data ownership, and integration patterns to keep them scalable and reliable.
- Built asynchronous workflows on Kafka, RabbitMQ, and AWS SQS with idempotent consumers, retries, dead-letter queues, and correlation IDs for reliable, duplicate-safe message processing.
- Developed REST and GraphQL APIs secured with OAuth 2.0, JWT, RBAC, and fine-grained permissions, including multi-tenant access control.

Analytics & Visualization Platform React, Next.js, TypeScript, RxJS, Zustand, D3.js

- Architected data-intensive dashboards and real-time D3 visualizations, optimizing rendering and data transformations for responsive user experiences.
- Cut a critical reporting endpoint's response time by ~75% (from ~1.2s to ~300ms) by restructuring PostgreSQL queries, adding indexes, and caching results in Redis.
- Improved frontend responsiveness by profiling rendering and eliminating unnecessary computation and re-renders.

Cloud & Production Engineering AWS, Azure, Docker, Kubernetes, Nginx

- Containerized services and deployed them to Kubernetes on AWS and Azure, with Nginx handling reverse proxying, routing, and HTTPS termination.
- Strengthened CI/CD pipelines, observability, and rollback strategies, and added automated tests and security practices to improve reliability.

- Mentored 3 junior engineers and reviewed architecture and pull requests, applying SOLID and other design principles to service boundaries, APIs, and reusable components.
- Used AI coding tools (Claude, Cursor, ChatGPT) to speed up refactoring, test writing, and code review.

Lens Chart Visualization *Angular, TypeScript, D3.js*

- Built interactive data-heavy lens-chart workflows in a team of 4, with dynamic D3 rendering, real-time updates, responsive behavior, and complex visual interactions.

JIRA Data Export Tool *Electron.js, Node.js, JIRA REST API*

- Independently designed and developed an internal desktop application that retrieves, processes, and exports JIRA project data for reporting and operational workflows.

Leveren – AI-Powered Job Search & CV Builder *React, TypeScript, AI model/API integration*

- Built AI-assisted CV creation and job-search features in a team of 3, including AI generation and optimization, search and filtering, and reusable components.

Additional systems: enterprise workflow platforms, authentication/authorization systems, AI-assisted applications, server-rendered platforms, internal engineering tools, and Electron desktop software.

Software Engineer | Zangi

Feb 2021 – Mar 2022

Developed production features in a team of 10 developers for a secure cross-platform SaaS communication platform with 6 million users, supporting private messaging, audio/video calls, real-time presence, notifications, and subscription-based access.

- Refactored the frontend architecture to separate UI, state, business logic, real-time communication, backend integrations, and Electron-specific code, improving maintainability and cross-platform stability.
- Implemented secure IPC between Electron main, renderer, and preload processes and developed WebSocket workflows for presence, reconnection, message synchronization, and failure recovery.
- Contributed to audio/video calling workflows, including call state, signaling, device handling, and connection status.
- Built Node.js and Express.js backend functionality and implemented Stripe recurring subscriptions with tiered pricing, plan changes, renewals, cancellations, webhooks, and billing-state synchronization.
- Improved authentication, session management, error recovery, performance, and reliability; added automated tests and contributed to CI/CD, packaging, and release validation.

Full Stack Developer | Evistep

Jan 2019 – Nov 2020

Built full-stack features across Vue.js frontends and PHP/Laravel backends, with REST APIs and MySQL databases.

Task Management Application *Vue.js, Vuex, Laravel, MySQL*

Sep 2019 – Nov 2020

- Built a collaborative project-management app with drag-and-drop boards, authentication, tasks, assignees, attachments, checklists, comments, and customizable states; implemented REST APIs, authorization, validation, and relational data models.

Tender Monitoring Platform *Laravel, MySQL, Web Scraping*

Jan 2019 – Aug 2019

- Built a procurement-monitoring platform that scrapes, normalizes, validates, and deduplicates tender data, with search, sorting, pagination, and multi-criteria filtering.

EDUCATION

National University of Architecture and Construction of Armenia *Yerevan, Armenia*

ADDITIONAL INFORMATION

Languages: Armenian – Native, English – Upper-Intermediate (B2), Russian – Fluent

Availability: Open to remote work and relocation