

# SEVAK BADALYAN

## BACKEND DEVELOPER

### CONTACT

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### SKILLS

- JavaScript
- TypeScript
- Node.js
- Express.js
- Nest.js
- Tsoa
- Mongo DB
- PostgreSQL
- Git/GitHub
- OAuth
- Docker
- ORM/ODM
- Socket.io
- HTML/CSS/SCSS
- React.js
- Bootstrap/Tailwind



### PROFILE

I am a backend-focused engineer dedicated to architecting scalable, high-performance systems from the ground up. I specialize in the Node.js ecosystem, primarily leveraging Express.js and TypeScript to build robust, production-ready applications, while also utilizing NestJS for modular architectures.

I am a high-efficiency developer who utilizes AI-driven tools to accelerate the coding process, ensuring rapid delivery without compromising on clean, maintainable code. I am ready to contribute to a forward-thinking team with my expertise in Microservices, Real-time communication (Socket.io), and Database Design (SQL/NoSQL). My focus is on turning complex business requirements into elegant, high-concurrency technical solutions.



### WORK EXPERIENCE

#### BeautyOS 2025 - present Salon & Beauty Business Management Platform

- **Microservices Architecture:** Engineered a scalable backend consisting of 11 independent services using Node.js and TypeScript, utilizing Kafka for event-driven communication and Turbo Monorepo for shared package management.
- **API & Documentation:** Architected type-safe REST APIs using the TSOA framework, ensuring 100% synchronized OpenAPI/Swagger documentation and seamless frontend-to-backend integration.
- **Security & Auth:** Implemented a robust Identity Management system integrating Okta, Firebase, and JWT, supporting Role-Based Access Control (RBAC) for four distinct user tiers (Admin, Manager, Stylist, Client).
- **Fintech & Messaging:** Developed a mission-critical payment and notification engine integrating Stripe API, SendGrid (Email), Twilio (SMS), and OneSignal (Push) to automate the end-to-end booking lifecycle.
- **Cloud Infrastructure:** Orchestrated deployment and secret management using AWS (S3, KMS, Secrets Manager) and Docker, with a containerized local environment featuring MongoDB Replica Sets and Redis caching.
- **Data Modeling:** Designed complex, high-performance NoSQL schemas in MongoDB, optimized for appointment scheduling, real-time inventory tracking, and multi-tenant salon management.

## SOFT SKILLS

- Communication
- Teamwork
- Time Management
- Creative Thinking
- Problem Solving
- Critical Analysis

## LANGUAGES

- Armenian (Native)
- Russian (Upper-Intermediate)
- English (Pre-Intermediate)

### Iguan Systems

2024 - present

#### Energy Trading & Supply Platform

- Trading Infrastructure & Data Modeling: Engineered a specialized backend for energy contract management using MongoDB Discriminators to handle distinct Company and Individual user types within a unified data architecture.
- Real-Time & Communication Hub: Developed a multi-channel notification system using Socket.io for live admin broadcasting and user presence tracking, integrated with SendGrid (Handlebars templates) and Twilio for automated transactional workflows.
- Security & Auth Lifecycle: Implemented a high-security authentication suite featuring an Access/Refresh token strategy with HTTP-only cookies, multi-factor OTP verification (SMS/Email), and granular RBAC for contract lifecycle management.

#### Business Marketplace Platform

- Architecture & Core API: Engineered a scalable Express 5 and TypeScript backend using a clean layered architecture (Controller-Service-DTO) to manage complex business-for-sale listings and investor workflows.
- Marketplace Ecosystem: Built an end-to-end marketplace featuring real-time messaging, AWS S3-powered media management, and automated cleanup via cron jobs.
- Security & Auth: Implemented a multi-role RBAC system with JWT and OAuth 2.0 (Google/Facebook), featuring advanced security layers including rate limiting, input validation with Joi, and soft-delete data patterns.

#### Social Network

- Architecture & Relational Data: Architected a robust PostgreSQL database schema using Objection.js and Knex.js, managing complex relational data for friendships, group memberships, and multi-level nested commenting systems.
- Social Features & Real-Time: Engineered a high-concurrency communication layer with Socket.io for private and group messaging, complemented by a complete social ecosystem including friend request workflows, discovery algorithms, and media sharing.
- Security & Asset Management: Implemented secure authentication using JWT and bcrypt, alongside a structured file upload pipeline using Multer and Supabase to handle user-generated content and profile assets.



## EDUCATION

### Master of Science in Business Information Systems

2025 - present

Armenian State University of Economics (ASUE)

### Bachelor of Science in Information Technology

2021 - 2025

National Polytechnic University of Armenia (NPUA)

### Back-End Development

2023

Aren Mehrabyan Foundation

### Front-End Development

2022

Picsart Academy

### English Language

2024

Lezounery Toun