

# Hossein Sajadinia

## BACK-END DEVELOPER

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Location: Isfahan, Iran. (Open to relocation globally)

Seasoned API and Backend Developer with 8 years of experience in high-performance, secure software solutions using Nest.js, Express, and Spring. Specialized in delivering robust backend architectures, complemented by over 5 years of strong background in mobile and frontend development with Flutter and Java. Demonstrated proficiency in the software development and application lifecycle. Passionate about advancing software engineering, through code optimization, enhancing productivity, and reducing maintenance costs. Adept in DevOps practices. My career is marked by continuous learning and an ability to translate complex requirements into successful, actionable ones.

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## SKILLS:

- *Programming Languages:* **JavaScript (TypeScript), Dart, Java**
- *Frameworks and Runtimes:* **Node.js, Nest.js, Express, Flutter, Spring (Java)**
- *Software Architecture:* **OOP, SOLID Principles, Clean Architecture, Microservices**
- *Database Management:* **SQL (Postgres, SQLite), NoSQL (MongoDB), ORM/ODM (Mongoose, TypeORM, Prisma, Hibernate)**
- *Caching and Search:* **Elasticsearch, Redis**
- *API Development:* **RESTful, GraphQL**; *Real-Time Communication:* **MQTT, Websockets**
- *Cloud:* **AWS architecture and services (EC2, ECS, serverless Lambda, VPC, S3, DynamoDB)**
- *Security:* **JWT, OAuth 2.0, SSL/TLS**
- *Cloud and Storage:* **AWS S3, minIO, OpenIO**
- *DevOps and Container:* **Docker & Docker-Compose; Nginx (web server, reverse proxy)**
- *Version Control and CI/CD:* **Git, GitHub Actions, Jenkins, GitLab CI/CD**
- *API Documentation:* **Swagger, Postman, Apiary**
- *Agile Methodologies:* **Scrum**; and *Project Management Tools:* **Jira, ClickUp, Notion**

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## EXPERIENCE:

Senior Backend Developer (*23rd (sellStaged)*, [23rd.co](https://23rd.co), Studio May 2023-present)

- Led the development of backend solutions using NestJS, enhancing system functionality and user experience.
- Designing APIs, and resolving QA-reported bugs.
- Employed Test-Driven Development (TDD) methodology to ensure robust and efficient code quality.
- Managing databases using Postgres (TypeORM), and MongoDB (Mongoose).
- Implementing Mailgun service for user email communications.
- Implementing secure user authentication, using email and Google credentials(OAuth2)
- Utilizing Firebase for push notifications.
- Facilitating financial transactions using Stripe infrastructure.
- Developing a real-time chat service with NestJS's WebSocketGateway.
- Actively engaged in a Scrum-based team environment, contributing to agile development processes and collaborative project management

## Backend Developer & DevOps *(Dodong company, Jan 2021-Jul 2022)*

- Engineered a scalable API server using Nest.js.
- Redesigned database schema (Postgres, Prisma), resulting in a 30% improvement in DB query speed.
- Optimized GraphQL queries and implemented Elasticsearch, enhancing search functionality and speed.
- Setting up GitLab CI/CD pipelines, developing a custom health check service, instituting a robust backup routine, and dockerizing all services.
- Boosted page load speeds by designing Redis cache (HTML) update scenarios, evident in improved page speed insight test scores

## Senior Backend Developer & DevOps *(Gorbani complex and institution, Feb 2019-Jan2021)*

- Developed backend API server using Java Spring and DevOps on an offline network.
- Developed and managed features APIs and version iterations. Managing extensive Java code.
- Diagnosed and fixed bugs, wrote appropriate tests, and enhanced system stability and reliability.
- Improved code structure and database schemas, focusing on scalability and maintainability.
- Dockerized services such as main applications, databases, data storage, redis, AI engines, and map servers. CI/CD pipelines (Gitlab), Nginx setup, Dockerization, health-check service, and backups.
- Solely developed an offline OSM and satellite map server service.
- Collaborated in a hybrid (remote/onsite) team using Agile methodologies.
- Achieved improved scalability, reliability, and performance; recognized by QA team feedback.

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## PROJECTS

### Mining Equipment Monitoring & Analysis Panel *(Barzin Company Jun 2022)*

- Developed a monitoring and analysis panel for mining equipment as a full-stack developer using Nest.js and Flutter, focusing on real-time data visualization and user/device management.
- Implemented the auth procedures for users and devices with passport strategy and JWT.
- Enabled real-time monitoring of data via WebSocket and detailed analytical assessments of device activities over time intervals.
- Managed DevOps operations including Dockerizing the front/backend, health check, and backup services, and Nginx configuration.
- Successfully deployed the system on an internal, offline network within the mine.

### 3D body analyzing desktop application *(Tavoos Tech Startup Mar 2019)*

- Designed and developed an electron desktop application with Vuejs that gets 3D Obj images from a 3D scanner and calculates famous muscle sizes of the human body. machine learning algorithms have been used in this project.

### VQA based on Graph Neural Network *(Master Thesis Oct 2020)*

- Implementation of a custom deep neural network that uses the graph analysis method to improve the accuracy of the Visual Question Answering (VQA) problem by Python PyTorch

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## EDUCATION

COMPUTER ENGINEERING Master of Science at Isfahan University of Technology 2018 - 2021

COMPUTER ENGINEERING Bachelor of Science at Isfahan University of Technology 2013 – 2017

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## LANGUAGES

Persian (Farsi): Mother tongue and native language.

English: C1 level in Reading, Listening, Writing, and B2 level in Speaking.