

# 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:* 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
- *Security:* JWT, OAuth 2.0, SSL/TLS
- *Cloud and Storage:* AWS (EC2, S3, RDS, Lambda, DynamoDB), and 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 DEVELOPPER (23rd (sellStaged) Studio Aug 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).
- Integrating Microsoft Azure S3 for file management.
- 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.

## SENIOR BACKEND DEVELOPPER & DEVOPS *(Gorbani complex and institution Jan 2019-Aug2022)*

- 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.

## BACKEND DEVELOPPER & DEVOPS *(Dodong company Nov 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, markedly 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.

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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