



# Hossein Sajadinia

## BACK-END DEVELOPER

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Location: Isfahan, Iran. (Open to work in Germany)

Senior API and Backend Developer with 8 years of experience in developing and maintaining high-performance, secure **software solutions** using **Nest.js**, **Express.js**, and **Spring** complemented by over 5 years of a strong background in **mobile and web development with Flutter**, and adept in **DevOps practices**. Passionate about advancing software engineering, through code optimization, and reducing maintenance costs.

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### EXPERIENCE:

#### Senior Backend Developer *23rd creative (sellStaged), [23rd.co](https://23rd.co)*

*May 2023-present, remote- London, United Kingdom*

- Leading the development of backend solutions using **Nest.js**.
- Designing new APIs, and resolving QA-reported or suggested improvements, errors, and bugs.
- **Architecting the backend on AWS**, optimizing S3, and updating financial transactions with **Lambda serverless functions**.
- Advocating for and implementing a **Test-Driven Development Process**, reducing bug rates by over 40%.
- Managing databases using **Postgres (TypeORM)**, and **MongoDB (Mongoose)**.
- Implementing secure user authentication, using email and **Google credentials(OAuth2)**
- Facilitating financial transactions using **Stripe infrastructure**.
- Actively engaged in a **Scrum-based environment**, contributing to agile development processes.

#### Backend Developer & DevOps *Dodong company*

*Jan 2021-Jul 2022, remote-Isfahan, Iran*

- 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**, Boosted search speed by 25% for 65% of queries.
- Setting up **GitLab CI/CD pipelines**, instituting a robust backup routine, and dockerizing all services.
- Increased page load speeds by 45% through **Redis cache** optimization, enhancing page speed insight test scores.

#### Senior Backend Developer & DevOps *Gorbani complex and institution,*

*Feb 2019-Jan2021, Isfahan-Iran*

- Developed backend API server using **Java Spring and DevOps** on an offline setting.
- Diagnosed and fixed bugs, wrote appropriate tests, and enhanced system stability and reliability.
- Solely developed an offline **OSM and satellite map** server service.
- Streamlined DevOps with Dockerization services such as main applications, databases, data storage, redis, AI engines, and map servers. CI/CD pipelines (Gitlab), Nginx setup, health-check service, and backups.

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### SKILLS:

- *Programming Languages:* **JavaScript (TypeScript)**, Dart, Java
- *Frameworks and Runtimes:* **Node.js**, **Nest.js**, **Express.js**, **Flutter**, **Spring (Java)**
- *Software Architecture:* **OOP**, **SOLID Principles**, **Clean Architecture**, **Microservices**, **BLoC**
- *Database:* **SQL (Postgres, SQLite)**, **NoSQL (MongoDB)**, **ORM/ODM (Mongoose, TypeORM, Prisma, Hibernate)**
- *Caching and Search:* **Elasticsearch**, **Redis**
- *API Development:* **RESTful**, **GraphQL**, **MQTT**, **Websockets**
- *Cloud:* **AWS architecture and services (EC2, ECS, serverless Lambda, VPC, S3, DynamoDB)**
- *Security:* **JWT**, **OAuth 2.0**, **SSL/TLS**

- **Storage:** AWS S3, minIO, OpenIO
  - **DevOps, Container and Version Control:** Linux (Terminal Commands, Bash/Shell), Docker & Docker-Compose, Nginx (web server, reverse proxy), 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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## 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.
- Enabled real-time data monitoring via WebSocket and analytical assessments of activities over time intervals.
- DevOps operations including Dockerization of the front/backend, backup services, and Nginx configuration.
- Successfully deployed the system on an internal, offline network within the mine environment.

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

**MASTER OF SCIENCE IN COMPUTER ENGINEERING** Isfahan University of Technology ([english.iut.ac.ir](http://english.iut.ac.ir)) 2018 - 2021

**BACHELOR OF SCIENCE IN COMPUTER ENGINEERING** Isfahan University of Technology ([english.iut.ac.ir](http://english.iut.ac.ir)) 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.