**A person in a white shirt and tie

Description automatically generatedHossein Sajadinia  
BACK-END DEVELOPER**

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

Senior 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 web development with Flutter and Java. Demonstrated proficiency in the software development and application lifecycle. I am also Adept in DevOps practices. Passionate about advancing software engineering, through code optimization, enhancing productivity, and reducing maintenance costs.   
  
**EXPERIENCE:**  
**Senior Backend Developer *(23rd (sellStaged),*** [***23rd.co***](https://www.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 secure user authentication, using email and Google credentials(OAuth2)
* Facilitating financial transactions using Stripe infrastructure.
* Developing a real-time chat service with NestJS’s WebSocketGateway.
* Actively engaged in a Scrum-based environment, contributing to agile development processes.

**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, 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.
* Diagnosed and fixed bugs, wrote appropriate tests, and enhanced system stability and reliability.
* Improved code structure and database schemas, focusing on scalability and maintainability.
* 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.

**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**
* *Storage:* **AWS S3, minIO, OpenIO**
* *DevOps, Container and Version Controller:* **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**

**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 Dockerizition 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

**EDUCATION  
MASTER OF SCIENCE IN COMPUTER ENGINEERING** Isfahan University of Technology ([english.iut.ac.ir](https://english.iut.ac.ir)) 2018 - 2021  
**BACHELOR OF SCIENCE IN COMPUTER ENGINEERING** Isfahan University of Technology ([english.iut.ac.ir](https://english.iut.ac.ir)) 2013 – 2017

**LANGUAGES**Persian (Farsi): Mother tongue and native language.  
English: C1 level in Reading, Listening, Writing, and B2 level in Speaking.