Hossein 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 a strong background in mobile and web development with **Flutter**, and adept in **DevOps** practices. Passionate in advancing software engineering, through code optimization, enhancing productivity, and reducing maintenance costs. My career is marked by continuous learning and an ability to translate complex requirements into successful, actionable ones.

EXPERIENCE:

Senior Backend Developer *23rd creative (sellStaged), 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(Oauth 2).**
- 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.

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**, developing a custom **health check service**, 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.
- 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:* **SQL (Postgres, SQLite), NoSQL (MongoDB, DynamoDb), 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**
- *Message broker:* **RabitMQ**
- *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) 2018 - 2021

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING Isfahan University of Technology (english.iut.ac.ir) 2013 – 2017

LANGUAGES

Persian (Farsi): Mother tongue and native language.

English: IELTS 7.5 overall (Advanced in Reading, Listening, Writing, and Speaking).