

# Maziyar Gerami

SOFTWARE ENGINEER · BACK-END DEVELOPER · JAVA DEVELOPER

Kermanshah, Iran

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## Summary

Java Backend Developer with 7+ years of experience in designing and building scalable, maintainable, and test-driven systems using Java (8–21), Spring Boot, and AWS. Strong advocate of Clean Architecture, Domain-Driven Design, and CI/CD practices. Contributed to both enterprise and open-source projects, including remote collaborations across international teams. Known for persistence, fast learning, and a deep sense of responsibility. Actively mentoring junior developers and continuously striving for growth and excellence.

## Skills

<b>Back-end</b>	Java (8–21), Spring Boot, REST APIs, JUnit, Mockito, Hexagonal Architecture, TDD
<b>Programming Languages</b>	Java, Clojure, Kotlin, Python, C++/C
<b>DevOps &amp; Cloud</b>	AWS, Docker, Kubernetes, GitHub Actions, CI/CD, MinIO, PostgreSQL, OpenLDAP
<b>Tools &amp; Practices</b>	Domain-Driven Design (DDD), Event Sourcing, CQRS, Scrum, Kanban, Pair Programming
<b>Soft Skills</b>	Mentorship, Public Speaking, Problem Solving, Rapid Learning, Responsibility
<b>Languages</b>	Persian (Native), English (C1), German (A2)

## Work Experience

### AVAN Software Technology Advisors (ASTA)

JAVA SOFTWARE ENGINEER

Tehran, Iran (Remote)

Jan 2024 – Present

- Developed and maintained 8+ microservices for the *open-source* Flickit project using *Java 21, Spring Boot*, and *hexagonal architecture*.
- Integrated *MinIO* and *PostgreSQL*, enhancing data handling efficiency by 20%.
- Advocated for *Clean Code* and *TDD* principles across 10000+ lines of production code.
- Built a lightweight *Backend-for-Frontend* (BFF) layer in *Python*.
- Developed 10+ AI-driven prompts using *SpringAI* for automated data assessment.
- Designed and implemented a Grafana-based dashboard to monitor microservice performance, reducing incident detection time by 35%.
- Developed Playwright end-to-end tests for key user flows, increasing regression coverage by 40% and reducing production bugs.
- Configured and customized *Keycloak* and integrated it with *Spring Boot* (OAuth2/OIDC, JWT, role-based access control), implementing centralized authentication, SSO across services, and fine-grained authorization policies to strengthen security.

### EPFC Corp.

SENIOR JAVA & CLOJURE DEVELOPER

Calgary, Canada (Remote)

Jul 2022 – Dec 2023

- Built 27 microservices using *Clojure, CQRS*, and *TDD*.
- Used *DDD* and *Scrum* to align development with business domains.
- Implemented *Amazon SQS/SNS* and *event sourcing* to increase scalability.
- Automated CI/CD pipelines to reduce deployment time by 32%.

### Radpardaz Razi

JAVA DEVELOPER

Kermanshah, Iran

Jan 2020 – Jun 2022

- Created microservices-based architecture with *Spring Boot*.
- Managed 20K+ users with *SAML, CAS, OAuth2*, and *LDAP*.
- Automated deployments across 8 servers via *CI/CD*.

### SPOT Online Taxi

ANDROID DEVELOPER

Kermanshah, Iran

Sep 2017 – May 2019

- Developed Android app with *Google Maps APIs*, reducing delivery time by 40%.
- Built real-time ride booking, wallet transactions, and session storage via *SQLite*.

### Islamic Azad University Incubator

ANDROID DEVELOPER

Kermanshah, Iran

Sep 2015 – Jul 2017

- Built apps for two startups (*Chili* and *My University*) using *Java*.
- Implemented *JWT*-based secure auth and two-level caching (*SharedPreferences + SQLite*).

# **Education**

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## **Islamic Azad University, Science and Research Branch**

MSC IN COMPUTER SOFTWARE ENGINEERING

Tehran, Iran

Oct 2015 – Sep 2017

- Grade: 18.9
- Thesis: Proposed a new scheduling method for IoT's Big Data in cloud environments
- Focused on Big Data, Cloud Computing, Image Processing, and Data Mining
- Skills: Databases, Algorithms, Data Mining, Big Data, Image Processing, RESTful WebServices, MySQL, Cloud Computing, Public Speaking

## **Shamsipour Technical and Vocational College**

Tehran, Iran

BSc IN COMPUTER SOFTWARE ENGINEERING

Oct 2011 – Nov 2013

- Grade: 14.8
- Thesis: Designed and implemented a routing system for urban public transportation using Java EE
- Skills: Databases, Algorithms, MySQL, Public Speaking

## **University of Kurdistan, Sanandaj**

Sanandaj, Iran

ASSOCIATE DEGREE IN COMPUTER SOFTWARE ENGINEERING

Sep 2008 – Nov 2010

- Grade: 13.8
- Project: Developed a Paint-like drawing application using Java Swing
- Skills: Software Engineering, Java, Swing

# **Publications**

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## **An Energy-Aware Scheduling of Dynamic Workflows Using Big Data Similarity Statistical Analysis in Cloud Computing**

2022

THE JOURNAL OF SUPERCOMPUTING, VOL. 78(3), PP. 4261–4289 Cited by 17

- Proposed an energy-efficient workflow scheduling approach using similarity-based big data analysis in cloud environments.

## **A Novel Association Rule Mining Using Genetic Algorithm**

2016

8TH INTERNATIONAL CONFERENCE ON INFORMATION AND KNOWLEDGE TECHNOLOGY (IKT) Cited by 13

- Introduced a genetic algorithm-based approach for discovering association rules to enhance data mining efficiency.

## **A New Algorithm for Hand Gesture Recognition in Color Videos for Operating System Commands**

2022

INTERNATIONAL CONFERENCE ON MACHINE VISION AND IMAGE PROCESSING (MVIP)

- Developed a real-time gesture recognition system for controlling operating systems using color video analysis.

## **Introducing a Dynamic Scheduling Algorithm in a DVFS-Enabled Cloud Environment to Reduce Energy Consumption**

2022

AVAILABLE AT SSRN: 4055019

- Proposed a dynamic voltage and frequency scaling (DVFS) scheduling algorithm for cloud-based energy optimization.

# **Certificates**

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June 2025 **Java Streams Essentials**, Amigocode

April 2025 **Introduction to Selenium**, Coursera

November 2024 **Learning Java Collections**, LinkedIn

September 2024 **Introduction to Artificial Intelligence**, LinkedIn

September 2024 **Introduction to Spring AI**, LinkedIn

September 2024 **Java: Lambdas and Streams**, LinkedIn

September 2024 **Learning Java 17**, LinkedIn

September 2024 **Learning Kubernetes**, LinkedIn

September 2024 **Learning Spring with Spring Boot**, LinkedIn

September 2024 **Spring: Framework in Depth**, LinkedIn