

NEGAR AKHGAR

JAVA BACKEND DEVELOPER

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TECHNICAL SKILLS

Languages	Java (11, 21), Python, SQL, JavaScript, HTML/CSS
Frameworks	Spring Boot, Spring Batch, Spring Data JPA, Hibernate, FastAPI, Flask
Messaging	Apache Kafka, AMQ · ISO 20022 financial messaging
Databases	PostgreSQL, Oracle, MongoDB
DevOps & Tools	Docker, Git, Bitbucket, Maven, Jenkins, IntelliJ IDEA, Postman, Jira
Testing	JUnit, Mockito, Selenium, JMeter, integration testing

WORK EXPERIENCE

Java Developer | Perigea - Milan, Italy

OCT 2025 - PRESENT

IT consulting for banking and financial-services clients

Digital-Asset Tokenization Platform - *Leading Italian banking group*

- Developed and maintained Java 21 / Spring Boot microservices for an enterprise tokenization platform, building REST APIs, a layered controller-service-repository architecture, DTOs, and core business logic.
- Integrated services through REST connectors, Apache Kafka, PostgreSQL, and Spring Data JPA / Hibernate, including optimised native SQL queries.
- Contributed to the delivery pipeline using Git feature branches, Bitbucket, Maven, and Jenkins CI/CD; wrote unit tests with JUnit and Mockito and supported incremental releases.

Technologies: Java 21, Spring Boot, Kafka, PostgreSQL, JPA/Hibernate, Jenkins, JUnit, Mockito

Data Governance & Batch Monitoring Platform - *Leading Italian banking group*

- Built monitoring features with Java 11, Spring Boot, and Spring Batch (readers, processors, writers, steps, and jobs) to track scheduled tasks, batch jobs, and Spark workloads.
- Designed MongoDB-based management of job configurations, execution expectations, and notifications, with execution-prediction logic based on cron expressions, execution windows, and configurable matching rules.
- Improved reliability through exception handling, debugging, and integration testing of REST endpoints, queries, and monitoring workflows.

Technologies: Java 11, Spring Boot, Spring Batch, MongoDB, REST APIs, Postman

Post-Trade Settlement Platform - *Pan-European stock exchange group*

- Contributed to a microservices-based system for financial settlement processing.
- Implemented ingestion and transformation of ISO 20022 financial messages.
- Integrated Kafka and AMQ messaging to support data exchange with external reconciliation platforms.

Technologies: Java, Spring Boot, PostgreSQL, Apache Kafka, AMQ · **Standard:** ISO 20022

Event-Driven Microservices Platform

- Designed and developed a two-service Spring Boot architecture communicating asynchronously through Apache Kafka.
- Containerised and deployed the services with Docker, integrating PostgreSQL, Oracle, and MongoDB.

Technologies: Java, Spring Boot, Apache Kafka, Docker, PostgreSQL, Oracle, MongoDB

AI-Driven Algorithmic Trading Platform – Fintech client

- Implemented multiprocessing in a reinforcement-learning trading engine, enabling parallel processing of real-time market data and improving performance.
- Contributed to migrating backend services from Flask to FastAPI, improving modularity and scalability.
- Supported data flows and system components within a real-time trading environment.

Technologies: Python, FastAPI, Flask, Kafka, Multiprocessing

Research Intern | Università degli Studi di Milano – SESAR Lab JUN 2024 – DEC 2024

- Analysed and classified stereotypical content in Italian tweets using large language models (Gemini, GPT-4, DeepSeek).
- Designed and optimised prompt-engineering strategies to improve classification quality.
- Applied association rule mining to identify patterns and relationships in the data.

Software Engineer | Vesam Software Company – Tehran, Iran FEB 2019 – AUG 2022

- Led a six-member software testing team and collaborated with stakeholders to analyse requirements and user feedback.
- Increased test coverage of educational software by 40% through automated testing with Selenium, Postman, and JMeter.
- Developed responsive and accessible user interfaces for mobile and web platforms.

Software Engineering Intern | Paya Pars Company – Mashhad, Iran JAN 2018 – JUN 2018

- Designed and developed responsive web interfaces for a banking platform using HTML, CSS, and JavaScript.
- Improved page performance and loading times through code refactoring and resource optimisation.
- Collaborated with a UI/UX designer to improve accessibility.

EDUCATION

Master's Degree in Computer Science OCT 2022 – JUL 2025
Università degli Studi di Milano – Milan, Italy

Bachelor's Degree in Software Engineering SEP 2017 – JUL 2019
Khavaran University – Mashhad, Iran

LANGUAGES

English: Fluent **Italian:** Upper-intermediate (B2) **Persian:** Native