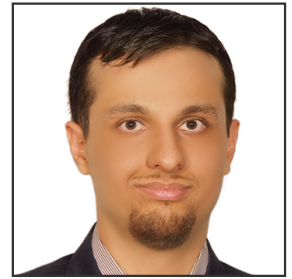# Sina **Momken**

Java Developer · Backend Developer

Apartment 3, Building #58, RaeesZadeh Av., TehranVilla St., SattarKhan St., Tehran, Iran, 1444734774.

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sinamomken | digitsm

Work Experience

Negah Tech. Holding of Karafarin Bank
Java Backend Developer

Tehran, Iran
Sep. 2020 - Present

Hibank Platform
- Backend development of the unified Omni-Channel NeoBank of Karafarin Bank for the web and mobile clients to connect.
- Written in Java™ 11 with Spring Boot framework, using Oracle™ relational DB, MongoDB NoSql DB and Redis cache.
- Using Spring Data JPA on top of Hibernate for running simple ORM tasks.
- Using Retrofit and RestTemplate as http client, MapStruct and ModelMapper for mapping between Entities and DTOs, and QueryDSL for executing complex queries.
- Managing database changes and migrations by Liquibase and storing files into MinIO Object Storage file server.
- Implementing public/private key and shared key cryptography between backend and mobile clients.
- Utilizing 4-layers backend architecture (controller, facade, service, repository).
- Consultation on hiring developers for the mobile team.

Legacy Internet Bank Project
- Maintenance and development of the legacy Internet Bank project of Karafarin Bank.
- Written in Groovy language wih Grails framework for Backend.
- Written in HTML/CSS/JavaScript language with Jquery framework for Frontend.
- Using MVC architecture and Oracle 10g as database.

Carpino, 3rd Ride Hailing app in Iran
Senior Android Developer

Tehran, Iran
Jun. 2019 - Apr. 2020

Rewrite of Carpino-Passenger android app from scratch
- Using Kotlin language with Room ORM and and SQLite DB.
- Utilizing 3-layers MVVM android architecture with LiveData observables.
- Using modern libraries like Dagger-Android dependency injection and Retrofit http client.

Carpino-Driver android app
- Development of intelligent map systems for driver app, like a 3D navigation system similar to Waze but with GPS nosie cancellation and Hotzones showing high ride demands.
- Collecting usage and crash data using Firebase Analytics, old Google Analytics, Crashlytics and Adtrace.
- Using 3-layers MVC android architecture with RxJava async library, Retrofit http client and various third party UI libraries.

Iran's Army Aviation Forces, MND
IT Support (Compulsory Military Service)

Tehran, Iran
Feb. 2018 - Jun. 2019

- Maintenance and management of software, OS, hardware and network of 400+ desktop clients.
- Managing Active Directory and Windows File Sharing servers.
- Administration and configuration of Cisco switches and routers.

Kaveh Information Services
Android Developer

Tehran, Iran
Apr. 2015 - Jun. 2016

Keloud project
- Design, development and customization of Keloud android app, based on OwnCloud.
- Connecting the app to the novel Keloud authentication, storage and sharing services for synchronizations.

Dadegan Research Group
Research Intern

Tehran, Iran
Sep. 2010 - Dec. 2010

Projects "Persian Dependency Treebank" and "Valency Lexicon of Persian Verbs"
- Design and implementation of a networked desktop application for annotators so they could easily mark and annotate different parts of the linguistic corpus in parallel.
- Development of a UI and central DB across network using C#.net and Microsoft SQL Server.

Education

Java Spring Framework

160 HOURS COURSE BY ALI RAHMANIAN

Jul. 2021 - Nov. 2021

University of Tehran
Tehran, Iran

M.SC. IN COMPUTER SCIENCE, ALGORITHMS AND COMPUTATION

Sep. 2014 - Sep. 2017

- **GPA:** 17.16/20.00
- *Thesis title:* An Efficient Algorithm for De Novo Metagenome Assembly.

Iran University of Science and Technology
Tehran, Iran

B.SC. IN COMPUTER ENGINEERING, SOFTWARE MAJOR

Sep. 2007 - Mar. 2013

- **GPA:** 17.58/20.00 (1st place)
- *Thesis title:* Development of an Optimized Web Browser for Android Operating System.

Allameh Helli High School
Tehran, Iran

DIPLOMA IN PHYSICS AND MATHEMATICS

Sep. 2003 - Jun. 2007

- **GPA:** 19.19/20.00
- *Affiliated with National Organization for the Development of Exceptional Talents (NODET).*

Skills

Programming Languages	• **Backend:** Java^{TM} SE/EE 8 & 11, Groovy, Kotlin, C#, ASP.Net, PL/SQL, JPQL • **Frontend:** HTML, CSS, JavaScript, JQuery, Markdown • **Android:** Java SE 8, Kotlin, XML • **Embedded Systems:** C/C++, Bash Script • **Scientific:** MATLAB, R
Frameworks, Libraries & Architectures	• **Backend:** Spring Boot 2.6 framework, JPA specification, Hibernate ORM, Retrofit http client, MinIO client, Jedis redis client, Spring Data JPA and Spring Data Mongo apis, Liquibase DB migration library, Grails framework, .Net Framework 4, ASP.Net MVC architecture, familiar with Multi-Modules and Micro-Services architectures • **Frontend:** Jquery, BootStrap, a little React.js • **Android:** MVVM and MVC architectures, RxJava Reactive extensions, LiveData observables, Retrofit http client, Dagger-Android dependency injection, Room ORM, Androidx and Material components • **Embedded Systems:** a little Qt framework, Linux kernel
Databases	Oracle, PostgreSql, MySql, SQLite, MS SQL Server, MongoDB, Redis Cache
Operating Systems	Linux (Debian and RPM based), Windows, a little MacOS, OpenWRT, a little FreeBSD
Development Tools	Intellij IDEA Ultimate, Android Studio, Visual Studio, Visual Studio Code, Oracle Sql Developer, TOAD for Oracle, DBeaver, MongoDB Compass, Redis Desktop Manager, Postman, curl, Docker, a little Burp Suite
Test Tools & Test Suites	JUnit, SpringBootTest & MockMvc, NUnit, familiar with TFD, TDD & BDD, Jenkins, Apache JMeter, Android Espresso Tests
Bug Tracking, Documentation & Source Control	Jira, Confluence, Bitbucket, Git, GitLab, GitHub, TFS, DokuWiki, LaTeX, Visio, Visual Paradigm, Rational Rose, Asana, Trello
Languages	• **English:** fluent, TOEFL iBT 87 (R=26, L=18, S=18, W=25), GRE General (V=141, Q=167, W=3.5) • **Persian:** native • **Arabic:** familiar

Honors & Awards

2013	**1st GPA**, among all IUST software major B.Sc. students (among ∼40) enrolling since Sep. 2007.	*Tehran, Iran*
2009 2008	**Ranked 25th & 35th**, at ACM-ICPC West Asia Regional Contest	*Tehran, Iran*
2007	**Ranked %0.8**, among ∼350,000 competitors of national B.Sc. university entrance exam in Math and Physics.	*Tehran, Iran*

Writing

Metagenome Assembly: Explanation, Challenges and Future Trends

S. MOMKEN, K. KAVOUSI, A. BANAEI, D. MOAZZAMI

Jan. 5th, 2018