Sina **Momken**

JAVA DEVELOPER · BACKEND DEVELOPER

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Work Experience

Negah Tech. Holding of Karafarin Bank   *Tehran, Iran*

JAVA BACKEND DEVELOPER   *Sep. 2020 - Present*

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.

New Unified Omni-Channel Platform Project

- Backend development of the Omni-Channel project of Karafarin Bank to create a unified backend platform for web and mobile clients to connect.
- Written in Java language with Spring Boot framework, using Oracle relational DB, MongoDB NoSql DB and Redis cache.
- Using 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.
- Utilizing 4-layers backend architecture (controller, facade, service, repository).
- Consultation on hiring developers for the mobile team.

Carpino, 3rd Ride Hailing app in Iran   *Tehran, Iran*

SENIOR ANDROID DEVELOPER   *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   *Tehran, Iran*

IT SUPPORT (COMPULSORY MILITARY SERVICE)   *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   *Tehran, Iran*

ANDROID DEVELOPER   *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.

Sobhe Corp.   *Tehran, Iran*

ANDROID WEB BROWSER DEVELOPER   *Aug. 2013 - Sep. 2013*

Zolal project

- Development of android version of Zolal web-app.
- Using Mozilla GeckoView browser module to correctly render Farsi/Arabic fonts in old android phones.

Dadegan Research Group   *Tehran, Iran*

RESEARCH INTERN   *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

University of Tehran

M.Sc. in Computer Science, Algorithms and Computation

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

Iran University of Science and Technology

B.Sc. in Computer Engineering, Software Major

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

Allameh Helli High School

Diploma in Physics and Mathematics

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

Training

Java Spring Framework

160 hours course by Ali Rahmanian

Skills

Programming Languages	• **Backend:** Java SE/EE 8 & 11, Groovy, Kotlin, C#, ASP.Net, SQL, JPQL • **Frontend:** HTML, CSS, JavaScript, Markdown • **Android:** Java SE 8, Kotlin, XML • **Embedded Systems:** C/C++, Bash Script, x86 Assembly • **Scientific:** MATLAB, R
Frameworks, Libraries & Architectures	• **Backend:** Spring Boot framework, JPA standard, Hibernate ORM, QueryDSL api for type-safe queries, Retrofit http client, Jedis redis client, Spring Data JPA and Spring Data Mongo apis, 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, 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, TOAD for Oracle, DBeaver, MongoDB Compass, Robo 3T, Redis Desktop Manager, Postman, curl, Docker, WireShark, a little Burp Suite
Test Tools & Test Suites	JUnit, a little SpringBootTest & MockMvc, NUnit, familiar with TFD, TDD & BDD, Jenkins, Android Espresso Tests
Bug Tracking, Documentation & Source Control	Jira, Confluence, Bitbucket, Git, GitLab, GitHub, TFS, DokuWiki, LaTeX, Visio, Visual Paradigm, Rational Rose, Asana, Trello

Honors & Awards

International

2018	**Finalist**, DEFCON 26th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2017	**Finalist**, DEFCON 25th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2014	**Finalist**, DEFCON 22nd CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2013	**Finalist**, DEFCON 21st CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2011	**Finalist**, DEFCON 19th CTF Hacking Competition World Final	*Las Vegas, U.S.A*

Domestic

2015	**3rd Place**, WITHCON Hacking Competition Final	*Seoul, S.Korea*
2017	**Silver Prize**, KISA HDCON Hacking Competition Final	*Seoul, S.Korea*
2013	**Silver Prize**, KISA HDCON Hacking Competition Final	*Seoul, S.Korea*

Presentation

DevFest Seoul by Google Developer Group Korea   *Seoul, S.Korea*

Presenter for <Hosting Web Application for Free utilizing GitHub, Netlify and CloudFlare>   *Nov. 2017*

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference)   *Seoul, S.Korea*

Presenter for <DEFCON 20th : The way to go to Las Vegas>   *Jul. 2012*

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

Writing

A Guide for Developers in Start-up   *Facebook Page*

Founder & Writer   *Jan. 2015 - PRESENT*

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

Program Committees

2016   **Problem Writer**, 2016 CODEGATE Hacking Competition World Final   *S.Korea*
2013   **Organizer & Co-director**, 1st POSTECH Hackathon   *S.Korea*

Extracurricular Activity

PoApper (Developers' Network of POSTECH)   *Pohang, S.Korea*

Core Member & President at 2013   *Jun. 2010 - Jun. 2017*

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)   *Pohang, S.Korea*

Member   *Sep. 2010 - Oct. 2011*

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.