# Sina **Momken**

JAVA DEVELOPER · BACKEND DEVELOPER

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## **Wor**k 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, 3$^{rd}$ 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.

## **Edu**cation

**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 (1$^{st}$ 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).*

# Training

**Java Spring Framework**                                                             *alirahmanian.com*

160 hours course by Ali Rahmanian                                                     *Jul. 2021 - Nov. 2021*

# Skills

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|---|---|
| **Programming Languages** | • **Backend:** Java SE/EE 8 & 11, Groovy, Kotlin, C#, ASP.Net, SQL, JPQL<br>• **Frontend:** HTML, CSS, JavaScript, Markdown<br>• **Android:** Java SE, Kotlin, XML<br>• **Embedded Systems:** C/C++, Bash Script, x86 Assembly<br>• **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 |

# 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

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|---|---|---|
| 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

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|---|---|---|
| 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.

# Extracurricular Activity