

Sina Momken

JAVA DEVELOPER · BACKEND DEVELOPER

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

☎ (+98) 912 4574396 | 📞 (+98) 21 66513718 | ✉ sina.momken@gmail.com | 🌐 sinamomken | 📱 sinamomken | 📺 sinamomken | 📺 sinamomken | 📺 digitsm

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 with 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 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 noise 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.

Tehran, Iran

Sep. 2014 - Sep. 2017

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.

Tehran, Iran

Sep. 2007 - Mar. 2013

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).*

Tehran, Iran

Sep. 2003 - Jun. 2007

Training

Java Spring Framework

160 HOURS COURSE BY ALI RAHMANIAN

alirahmanian.com

Jul. 2021 - Nov. 2021

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

PRESENTER FOR <HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE>

- 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.

Seoul, S.Korea

Nov. 2017

6th CodeEngn (Reverse Engineering Conference)

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

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

Seoul, S.Korea

Jul. 2012

Writing

A Guide for Developers in Start-up

FOUNDER & WRITER

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

Facebook Page

Jan. 2015 - PRESENT

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)

CORE MEMBER & PRESIDENT AT 2013

Pohang, S.Korea

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)

MEMBER

Pohang, S.Korea

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.