









MOHAMMADREZA HEYDARIAN

FULL-STACK DEVELOPER

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SKILLS SUMMARY

- Python
- Prompt Engineering
- JavaScript
- GIT
- SQL
- JavaScript
- NodeJs
- PHP
- HTML/CSS
- Linux
- Angular
- C++
- C
- OpenCV

LANGUAGES

- English
- Persian
- Kurdish
- Dutch

HOBBIES

-  Reading
-  Cycling
-  Swimming
-  Mountain hiking
-  video games

PERSONAL PROFILE

PhD student of computer science at Ghent University. MSc graduate of software engineering from the Sharif University of Technology, with more than seven years of experience as a software developer. Having worked with technologies including but not limited to Python, Java Android, JS, PHP, Angular, React-Native, and NodeJS. Loving to solve challenging problems and learning new technologies.

GENERAL

Age: 30
Married: yes
Nationality: Iranian



WORK EXPERIENCE

Full-stack developer

Center for infrastructure sustainability and resilience research at Sharif University | Nov 2019 - Aug 2022

- Supervisor: Dr. Hamed Kashani
- <http://insurer.sharif.ir>
- Working on Building Information Gathering System
- Used technologies: NodeJS, React-Native, Angular, SQLite, MongoDB

Front-end developer

Monta | Nov 2018 - Nov 2019

- Supervisor: Arash Mahabadian
- <https://www.monta.ir>
- Working on Monta android app and Montaman react-native app
- Used technologies: Java (Android), React-Native, NodeJS
- Reason for leaving: The Ending of the contract and unsatisfying salary

Front-end developer

TIK | July 2018 - Nov 2018

- Supervisor: Ali Shamakhi
- <https://home.tikschool.com>
- Working on admin panel for teacher and student management
- Used technologies: Angular
- Reason for leaving: Completion of the Project

Full-stack developer

Intelligent information solutions at Sharif University | Feb 2017 - Mar 2018

- Supervisor: Dr. Moslem Habibi
- <https://shub.ir>
- Working on Motoshub, a social network engine
- Used technologies: Java (Android), JavaScript, PHP, Html/CSS
- Reason for leaving: Working on Thesis

Android developer

Viratech Sharif - Gandom development team | Apr 2016 - Feb 2017

- Supervisor: Hamed Raufian
- <http://www.gandom.co>
- Working on Arabaeen, a cultural and linguistic guide android app for visitors of Iraq
- Working on Chichikoo, a social network for business owners and customers
- Used technologies: Java (Android)
- Reason for leaving: Being accepted for Master, and university's obligation to only work on campus

Freelance Android developer

Jul 2014 - Apr 2016

- Published app: RealMadrigha mobile client
- Published app: Islahweb mobile client
- Published app: Mass SMS Sender
- Published app: SMART TRAINING AND FLASHCARD FORMATION SYSTEM (STAFFS) - A training system for parsing Wikipedia and extracting glossary then presenting it to users in an android app based on their examination results
- All apps published on Cafe Bazaar and Iranian Android Store (Some of the App may not currently be available)
- Used technologies: Java (Android)

Other unrelated work experience

- The executive director of Kurdistan in Iranian Culture and Ethnic Festival in Sharif University (Dec 2018)
- The executive director of 'Fasle Now' student event (Oct 2016 and Oct 2017)
- Test maker for 'Modarresane Sharif', an educational institute helping students in preparation for university entrance tests
- Translating engineering papers from English to Persian

PROJECTS DONE

Private Teacher Startup system

A startup to connect students and private teachers

- The system consists of three parts: Server, mobile client and admin panel
- Mobile Client, developed using React-Native
- Admin Panel, developed using Angular

VOIP client for android using PJSIP

The compilation, embedding and debugging of PJSIP VOIP implementation in android in order to develop an android client to be used in a VOIP telephone system. Written in Java Android and C

- Under the supervision of Dr. Mohsen Safavi

Deployment of a tr069 provisioning system

Deployment of a complete auto-provisioning system for a VOIP server, including tr069 CPE and tr069 ACS

- FreeACS is used as the server
- EasyCWMP in OpenWRT is used as the client
- Under the supervision of Dr. Mohsen Safavi

Android-based system for drone control using image processing

Controlling a DJI quadrotor using a laser beam having a special signal (similar to Talon missiles), to facilitate guiding drones for people unfamiliar with drone standard controllers

- Using OpenCV for image and signal processing
- Using DJI SDK for drone control
- Under the supervision of Dr. Jafargholi, faculty of Amir Kabir University of technology

RC CAR

A radio-controlled toy car being controlled from an android app developed using Arduino C++ API and Java Android

- All electronics are done using Arduino peripherals including servo, wifi transceiver, etc
- The wireless control mechanism uses UDP packets

SIMPYTHON

A mini engine for simulating discrete event scenarios written in python

- Inventory system simulations
- Queue system simulations
- Presenting complete simulation statistics both graphically and numerical
- An API for designing simulation systems
- GitHub link: <https://github.com/mrhsce/simPython>

GCM SERVER

Google cloud messaging server for sending the notification to android app clients written in PHP

- Able to send messages to hundreds of thousands of clients
- Serving 150k clients in Sep 2015

EDUCATIONAL HISTORY

Doctorate of computer science engineering

University of Ghent | Sep 2022 - Now

- Thesis title: Software based networking for 6G
- Supervised by: Dr. Didier Colle and Dr. Wouter Tavernier
- Currently I am focusing on Time-Sensitive Networks (TSN) and mmWave MIMO systems. My research aims to leverage MIMO technology to optimize TSN networks for improved performance. I am also involved in multiple projects, including "SHAPE: Next Generation Wireless Networks."

Master of software engineering

Sharif University of technology | Sep 2016 - Dec 2018

- Thesis title: A real-time and energy-efficient infrastructure for computation offloading in IoT
- Supervised by: Dr. Mohammad Amin Fazli
- Taken courses to include: Software architecture, Software development methodologies, Sematic web, Requirement engineering
- Teacher Assistant in Software engineering by Dr. Moslem Habibi (Fall 2017 semester)
- Teacher Assistant in Basics of programming by Dr. Taheri (Spring 2018 semester)

Bachelor of software engineering

Iranian University of Science and Technology | Sep 2012 - Sep 2016

- Taken courses to include: Advanced programming, Operating systems, Compilers, Software engineering, Computer networks

LANGUAGE SKILL CERTIFICATES

English

Toefl - Scored 113/120

- Reading: 30 out of 30
- Listening: 29 out of 30
- Speaking: 26 out of 30
- Writing: 28 out of 30

Dutch

CVO groeipunt

- B1 (2.6)