Mahdi MohammadiZadeh | CV

University of Shahid Beheshti − Department of Computer Science
Senior Software Engineer − Saeian Ertebat

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RESEARCH INTERESTS

o ML / DL / NN
o Big Data
o Data Management Systems
o Software Design / Development

EDUCATION

o **Master of Computer Science and Engineering**   Sep, 2015 − Jan, 2018
  University of Shahid Beheshti   *Tehran-Iran*
  - Computer Architecture
    · Thesis: A novel way to improve lifetime of SSDs
    · GPA: 4/4
o **Bachelor of Computer Science and Engineering**   Sep, 2011 − Sep, 2015
  Shahid Beheshti University of Technology   *Tehran-Iran*
  - Computer Science and Engineering
    · Hardware Engineering
    · Thesis: Compare different routing algorithms in NOC and Implement on FPGA
    · GPA: 3.38/4
    · GPA (Major): 3.55/4
o **Diploma in mathematics and physics**   Sep, 2007 − Sep, 2011
  Shahed High School   *Iran-Marvdasht*
  - Mathematics and Physics
    · GPA: 18.80/20

HONORS

o Selected as mentor in sharif spaghetti (national programming) contest	2019
o Ranked 1st among all Masters students of Computer Engineering Department	2017
o Selected as the best Teacher Assistant, Computer Science department at Shahid Beheshti University	2016
o Qualified to graduate studies in Shahid Beheshti University without entrance exam	2015
- Granted admission from Talented Student Office	
o Rank top 10 percent among all bachelor university students of Computer Engineering Department	2015
o Certificate of successful completion in security and methods against attacking from Ashiyane Security Team	2012
o Ranked top 0.5 percent in university entrance exam, among the more than 300,000 participants	2011
o Ranked 1st among all students in high school	2011
o Ranked 1st in province Shahed research competitions	2009
o Top position in province shahed research competitions in information technology	2008
o Rank top 1 percent in Khwarizmi Festival	2008
o Top position in province Computer Olympiad	2007
o Ranked 1st in Computer Olympiad and enter the second province Computer Olympiad in elementary schools	2006

WORK EXPERIENCE

- Senior Software Engineer
  - *Saean Ertebat*   2017 - present
- Teacher Assistant
  - *Shahid Beheshti University*
    - Computer Architecture   2016
      - Instructor: Dr. Binesh Marvasti
    - Digital design   2016
      - Instructor: Dr. Ali Jahanian
    - Computer Architecture   2016
      - Instructor: Dr. Binesh Marvasti
- Tutoring
  - Javascript   2021
  - C++   2015
  - AVR   2015
  - Math   2014

PROJECTS

- User Interface For Contact Center [*Saean Ertebat Company*].   2020
  - Implement new user interface using react js
- Automatic Speech Recognition in Persian language [*Saean Ertebat Company*].   2020
  - working in Research and Development team. most of my tasks has been related to signal analyzing using python. we m
- Audio silence detection [*Saean Ertebat Company*].   2020
  - analysis thousands of phone calls audio files and splice them into short chunks and remove silence from audio to prepare suitable audio files for speech recognition project using python
- Web Scraper [*Part Time Job*].   2020
  - scraping restaurants data and deploy NLP on customer comments with Python
- Indexing Contact Center logs in Elasticsearch [*Saean Ertebat Company*].   2019
  - Indexing Sena Contact Center in elasticsearch to create analytics reports real time using elasticsearch Java High Level REST client and Kibana
    - It is going to be used in all customers' contact centers
- Contact Center [*Saean Ertebat Company*].   2019
  - Continue Developing new features in both client side and server side of Sena Contact Center with java
    - It is used in about ten or more Telecommunications in different provinces, Industrial centers, Hospitals, and ...
- Bug Bounty [*Emad Company*].   2019
  - Web Application that companies register their Website or Their Applications and Hackers start to hack and pain test their web or application. Php - Bootstrap
- Online Ordering front-end [*Mohammdi Confectionery*].   2018
  - Design new UI for online ordering system
- Broker App   2018
  - Design And Implement RESTful API and both IOS and Android apps using react native and php laravel framework for Edalat Pishegan Khatam legal institute.
- Auto Paging System [*Saean Ertebat Company*].   2018
  - Design and implement user interface of auto paging system using React-Redux.
    - It used in Mehrabad International Airport
- Fund Charity   2017
  - Implement both frontend and backend. Fund Charity is an online platform to create funds and groups and giving loan to users and receiving installments. It is possible to create funds for each city and then manage all funds and group all over the country.
- CRM [*Saean Ertebat Company*].   2017
  - Continue implementing both front-end and back-end. It is a large scale program to automate all functionalities in company such as purchasing, selling, inventory, ticketing, sending and receiving emails, and a lot of other functionalities. Its backend is PHP with Zend framework and its frontend is Ext JS(a javascript framework) and

use Camunda BPM in system for more flexibility in making different processes based on need.
- · It used in SENA

o Splitting the Bill [*Part Time Job*]. 2017
 - Implement both frontend and backend. It is a program for computing all expenses in camping trips between participants using php

o Telegram Analyzer [*Part Time Job*]. 2017
 - Implement both frontend and backend. Telegram Bot to analyze all messages in groups and channels using php

o Online Ordering [*Mohammdi Confectionery*]. 2017
 - Design and implement both frontend and backend. It is a new system for stores to order online with tablet and receive their order in PC with php using laravel framework and bootstrap and HTML5

o Mrghanad [*Part Time Job*]. 2017
 - Implement both frontend and backend. Second version of mrghanad site using laravel framework and bootstrap

o SSD Wear leveling - Master Project [*Thesis*]. 2017
 - A novel Algorithm to increase the SSD's lifetime using C++ in flashsim simulator

o Mrghanad [*Part Time Job*]. 2017
 - Implement both frontend and backend. It is an online platform to order cake and sweet, Using php in laravel framework

o RTDS [*Part Time Job*]. 2016
 - Make an optimal hardware for power transmission network to make it fast with FPGA

o NN [*Part Time Job*]. 2016
 - Design a Neural Network to predict students status in the future using the grades of previous years students using java

o Accounting Software [*Kargiamehr Company*]. 2016
 - New accounting software with a lot of special features using CS

o NOC Routing - Bachelor Project [*Thesis*]. 2015
 - Compare different routing algorithms in NOC and Implement on FPGA

o InN [*University Project*]. 2015
 - Design a new Interconnection Network with new Switch, Arbitrator and Routing algorithm and implement it on FPGA

o Multi Filtering [*University Project*]. 2015
 - Use multi filtering in image processing to improve the quality of images with java

o FPGA [*University Project*]. 2015
 - Implement new FPGA on FPGA using VHDL

o MIPS [*University Project*]. 2014
 - Implement MIPS processor using verilog on FPGA

o Mano [*University Project*]. 2014
 - Implement mano processor using System C

o Washing machine [*University Project*]. 2014
 - Make a chip using AVR for washing machine

o MC [*University Project*]. 2013
 - Missionaries and Cannibals game using C++

o Maze [*University Project*]. 2013
 - Implement different artificial intelligence algorithm for a robot to find the best path in a maze with a lot of blocked cells

Courses

o Computer Advanced Architecture [Winter 2016]
o Fault Tolerant System [Winter 2016]
o Data Structure [Winter 2013]
o Operating Systems [Winter 2013]
o Artificial Intelligence [Winter 2014]
o Image Processing [Winter 2015]
o Neural Networks [fall 2015]

COMPUTER SKILLS

Programming/Scripting

- Java
  - Spring MVC
  - Spring Boot
- Python
- Javascript
  - Node.js
    - Express.js
    - Next.js,
    - Socket.io,
  - Client
    - React / Redux
    - Material UI,
    - Babel,
    - jQuery,
- PHP
  - Zend framework
  - Laravel
- C, C++

Big Data / Storage / Virtualization / Other

- Elasticsearch
  - Business, Analytics
  - Kibana
- Docker
- Version Control
  - Git
- Databases
  - MySQL
  - MongoDB
- OS
  - Linux
    - Ubuntu
    - Cento OS
  - MacOS
- Testing
  - Unit Test
- RESTful API
- AWS
- Design Patterns

LANGUAGE SKILLS

- Persian   Native
- English   Fluent
  - IELTS Score: 6.5
    - Reading: 6.5
    - Listening: 6.5
    - Speaking: 7
    - Writing: 6.5

Refrences

- Dr. Binesh Marvasti
  - Positions: Assistant Professor
  - Email: marvasti@khu.ac.ir
- Dr. Ali Jahanian
  - Positions: Associate Professor
  - Email: jahanian@sbu.ac.ir
- Dr. Farshad Safaei
  - Positions: Assistant Professor
  - Email: safaei@sbu.ac.ir
- Mr. Mohammad Shokuienia
  - Positions: Cofounder at SENA Co.
  - Email: shokuie@gmail.com

❶ References, Further information, and Proofs are available upon Request