Mohammad Mahmoodian
Curriculum vitae

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WORK EXPERIENCE

MARCH 2020

Freelance
Software Developer

Developed real-time people counting for the video stream, with help of computer vision and deep learning. Implemented Smart object detection and object tracking.

AUGUST 2020

Freelance
Android Developer

Programmed a nordic Soc to capture data from an OSRAM Opto Semiconductor (SFH7070). Developed an app in Android Studio to communicate with the nRF through the BLE and display the captured data.

SEPTEMBER 2019 – PRESENT

PAD Lab, UTSTPark, Tehran, Iran
Blockchain Developer

Work with popular cryptocurrency source codes at PAD (Processing and Analysis Data) lab under the supervision of Mahsan Co. in the UTSTPark (University of Tehran Science and Technology Park).

DECEMBER 2017 – JANUARY 2019

Farineh Fanavar, Tehran, Iran
Software Developer

Implemented IoT protocols using blockchain and smart contracts. Worked with tools such as truffle and Geth (Go Ethereum) to test and simulate smart grids at Farineh Fanavar.

EDUCATION

2017 – 2020 **Electrical Engineering - Network Communications**
MASTER OF SCIENCE
University of Tehran
GPA: 18.8
Rank: 1

2013 – 2017 **Electrical Engineering - Communications**
BACHELOR OF SCIENCE
University of Tehran.
GPA: 18.4
Rank: 8

SELECTED COURSES

Pattern Recognition ($\frac{19.2}{20}$) Advanced Programming ($\frac{18}{20}$)
Data Networks ($\frac{20}{20}$) Distributed Optimization ($\frac{18.5}{20}$)
Stochastic Processes ($\frac{19}{20}$) Cellar Networks ($\frac{20}{20}$)

PROJECTS

2020 **Machine Vision**
Implemented a real-time people counter using OpenCV, SciPy, deep learning, etc. in Python language programming.

2020 **Android Studio**
Developed an app in Android Studio using Java programming language to connect to a device through BLE and display received data.

2020 **TON Cryptocurrency**
Edited TON (Telegram Open Network) client source code and added some features to it.

2019 **Clustering**
Clustered MNIST dataset using Agglomerative, Affinity, and K-means clustering approaches.

2019 **MLP and RBF Classification**
Classified MNIST dataset using MLP and RBF artificial neural networks.

2019 **Geth**
Work with Go-Ethereum (official Go implementation of Ethereum protocol) and add some features to it (e.g. writing data onto CassandraDB, Neo4jDB, LevelDB, etc.).

2018 **Smart Contract**
Built smart contracts using solidity and hyperledger sawtooth. used web3 Restful api in Python and JavaScript to connect to blockchain.

COMPUTER SKILLS

GOOD LEVEL Python, OpenCV, SciPy, Scikit-learn, MNIST, SVM, Deep learnig, Clustering, Go, C, C++, C#, Java, Cryptocurrency, Database

INTERMEDIATE LaTeX, Keil, Wireshark, shell, Node.js, HTML, JavaScript