

Mohammad Mahmoodian

Curriculum vitae

WORK EXPERIENCES

MARCH 2020

Freelance

Software Development

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 Development

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 Development

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 Development

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 – PRESENT **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 ($\frac{19}{20}$) Cellular Networks ($\frac{20}{20}$)

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PROJECTS

- 2020 **OpenCV**
Implemented a real-time people counter using OpenCV, SciPy, 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 **Nordic nRF**
Worked with Nordic nRF52840 SoC and programming the chip, in C programming language using Keil IDE.
- 2020 **TON Cryptocurrency**
Edited TON (Telegram Open Network) client source code and added some features to it.
- 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.
- 2018 **Zigbee**
Implemented Zigbee protocol on XBee modules using Keil.
- 2017 **OpenWrt**
Installation of OpenWrt on routers.

COMPUTER SKILLS

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

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