JAVAD SAMERI

Phone: +989125536267
Email: sameryq@gmail.com   Website: mj-sam.github.io
LinkedIn: linkedin.com/in/m-javad-sameri   Github: github.com/mj-sam

EXPERIENCE

MARCH 2018 – AUGUST 2021

(CONTRACT) PYTHON AND MACHINE LEARNING DEVELOPER, HOOSH-PARDAZAN BARTAR

- Image processing specialist, Python, and C++ developer to Crack detection system in industrial conveyor strip
- Team leader for design and implementation of a local road traffic control for molten cooper carrier
- Image processing specialist and Python developer to 360-degree Surround-view system

JULY 2017 – JANUARY 2018

REACT AND NODEJS DEVELOPER, ATLAS

- React and NodeJs developer
- Task organizer

SEPTEMBER 2014 – APRIL 2015

IT ADMINISTRATOR, IRAN MINISTRY OF ROAD AND URBAN DEVELOPMENT

- Network and server maintenance

AUGUST 2013 – JANUARY 2015

(PART-TIME) EDUCATIONAL CONSULTANT, QALAMCHI EDUCATIONAL INSTITUTION

- Prepairing students for university entrance exam with making study plan and progress check

EDUCATION

SEPTEMBER 2016 – AUGUST 2019

MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE AND ROBOTICS,

Faculty of Computer Engineering, Iran University of Science and Technology

SEPTEMBER 2011 – SEPTEMBER 2016

BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING,

Faculty of Electrical and Computer Engineering, Qom University of Technology

SKILLS

Hard Skills

Programing languages
- Python (expert)
- C++, MATLAB, JavaScript (proficient)
- R, Java, Julia, VHDL (beginer)

Signal processing and Machine learning tools
- TensorFlow, Keras, PyTorch
- Python scientific tools
- OpenCV

Software Development Tools
- React, React Native, Node Js
- Qt
- Django, MYSQL, CSS, HTML
- Docker and Git
- Ubuntu, Bash programming

IoT and Robotics
- Robot Operating System (ROS)
- Arduino, Raspberry PI
- Proteus

Language Skills
- Persian   Mother tongue
  English   TOEFL scores:

Overall:	Reading:	Listening:	Speaking:	Writing:
107/120	29/30	30/30	23/30	25/30

PROFESSIONAL PROJECTS

Developing a SLAM platform based on VINS-Mono that uses Parallax feature representation, Adaptive constraint window
VINS-Mono is a well-known platform for simultaneous localization and mapping. In this project, I added the features mentioned above to this platform. Also, I prepared the basis for adding an IMU denoiser implemented in Tensorflow to this project by introducing a middle node in processing IMU data.
Skills: ROS, C++, OpenCV, CMake, Docker, Git

Crack detection system in industrial conveyor strip
This online system detects cracks in conveyor belts carrying boulders to prevent the dramatic spread of these cracks. My main contribution was developing a model to detect these cracks. Also, I developed the user interface and a framework to handle and process the collected data from the site.
Skills: Python, ROS, Qt, TensorFlow, OpenCV, C++, Git

Design and implementation of local road traffic control for Haul trucks movement
Haul trucks that carry molten rocks can not hit the break because of the fluctuation of molten copper. We designed a system with UHF RFID for detecting trucks and a hydraulic boom barrier to block other roads in intersections to facilitate trucks' movements. Additionally, a user interface was developed to collect traffic data for further analysis.
Skills: Python, MYSQL, Qt

A cross-platform application for online auctions
Skills: ReactJS, ReactNative, NodeJS, MYSQL, REST API, Git, Docker

Artam web application with hierarchical recruitment
Skills: ReactJS, NodeJS, MYSQL, REST API, Git, Docker

An online content store
Skills: ReactJS, NodeJS, MYSQL, REST API, Git, Docker

A semantic classifier based on genetic feature selection
Skills: Python

HOBBY PROJECTS

Design and implementation hydroponic irrigation system
Skills: Arduino, Raspberry PI, Proteus for PCB design and printing, wielding

Automated nursery for plants' seeds to germinate
Skills: Arduino, Raspberry PI, Proteus for PCB design and printing

Design and implement an RC car controlled by hand position w.r.t webcam
Skills: Python, Arduino, Proteus, OpenCV

Leitner box desktop and android application
Skills: Python, Qt, ReactNative

ONLINE COURSES

Introduction to Embedded Machine Learning
DeepLearning.AI TensorFlow Developer Specialization
- Sequences, Time Series and Prediction
- Natural Language Processing in TensorFlow
- Convolutional Neural Networks in TensorFlow
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Iran, Tehran