

Pooya Alamirpour

Electrical Engineer | Full Stack Developer | Self-driving Car Engineer | Robotics

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Well-qualified Full Stack Developer and Machine Learning specialist familiar with a wide range of programming utilities and languages. Knowledgeable of backend and frontend development requirements. Able to handle any part of the process with ease. Complex problem-solver with an analytical and driven mindset. Collaborative team player with excellent technical abilities offering ten years of related experience. Optimized structures and processes to accomplish customer targets and promote company loyalty. Dedicated to achieving demanding development objectives according to tight schedules while producing impeccable code. Expert in diverse programming languages, including C++/C# and Python.



Skills

ASP.MVC C#	◆◆◆◆◆
C++	◆◆◆◆◆
Python	◆◆◆◆◆
SQL	◆◆◆◆◆
Deep Learning	◆◆◆◆◆
TensorFlow – PyTorch - Keras	◆◆◆◆◆
JavaScript Programming	◆◆◆◆◆
HTML Expertise	◆◆◆◆◆
CSS Proficiency	◆◆◆◆◆



Work History

May 2019 - Full Stack Developer

Current Upworks

- Working as a freelancer in Upwork gives chance to implement amazing projects for lots of companies. One of the amazing projects was implementing a desktop application for making a connection between source and destination PC (computer). The fantastic part of this project is using Electron Framework for implementing remote desktop applications by using pure javascript for the first time. Therefore, this app can be used for WINDOWS, and Mac OS.

Implemented features for this project are: Sharing screen, sharing mouse and keyboard, uploading the file, chatting, etc. Also, this project has an admin panel where admin can see the number of installing, manage software licenses, and supporter part. Related skills for implementing this project: Javascript for Desktop Application (Electron) - ASP, MVC C# for server-side - SQL Database for server-side

Sep 2017 - Senior .NET Software Developer, Full-Stack

Sep 2019 *Opus Company*

- HealthNet is the name of the robust platform and it supposed to use by doctors for transferring some related patient documents. It is imperative that this product can pass high-level security. To achieve this goal, the new protocol is implemented by using ebXML structure. So the user can send and receive valuable data safely and based on a suitable structure. For completing this project, it was necessary to be incorporated with a big company where is stored all related data of Norway citizens which is named Opus. This project has delivered in Norway's country, but because of having a flexible structure, it can be used for other countries and companies. Related skills for implementing this project: ASP,MVC C# -Javascript and jQuery - SQL Database - HTML, CSS

Nov 2016 - Senior .NET Software Developer, Full-Stack

Dec 2017 *Sarveen*

- Researched, designed, and implemented a scalable application that is named SmartCattle that is a smart application based on the web which is a suite of technologies for boosting the quality and quantity of production in dairy farms. Its modular design allows for the seamless upgrade as the farm requirements evolve. Smart Cattle records and analyzes animal activities and eating patterns for monitoring their health. All this is offered in an easy to use the software as a service platform. The related skills for implementing this project: ASP,MVC C# - Javascript and jQuery - SQL Database - HTML - CSS

Jan 2014 - Electrical Engineer

Oct 2016 *Self-Employed*

- This project involved 34 bus stations, and each station has three swing barrier gates. I have designed and implemented central electronic control and power unit systems of barriers gates, and also I have implemented an application for monitoring and controlling all executed systems of bus lines of Mashhad. It should be mentioned, I have executed other related projects based on my implementation on the barrier gate. You can see another project (more than 15 projects) that I have done during five years of activity in the below link: <http://www.scd.ir/sysnews/cid/731>

Dec 2008 - Robotics Engineer

Feb 2015 *MRL*

- One of my amazing golden age in my life was working on Robotics Field. I had a chance to build some smart and powerful robots which are supposed to help other people to have a better experience. One of my achievements was designing and implementing a rescue robot for surviving people under rubble

after a disaster such as an earthquake. This fantastic robot could acquire the first place in the world in the international RoboCup competition in Mexico 2012. Also, this robot could pass successful maneuvers in real situations such as the Iran earthquake, which happened in 2011 in Tabriz city.



Education

Oct 2019 - C++ Nanodegree Program

May 2020 Udacity

Credential: <https://graduation.udacity.com/confirm/C6N7PHD6>

Oct 2006 - Bachelor of Science: Electrical And Electronics Engineering

Oct 2010 Qazvin Azad University - Qazvin



Certifications

Jun 2012 1St Place in International RoboCup, Rescue Robot League, Mexico City, Mexico

Aug 2012 1St Place in 3th International Federation of Inventors, Iran, mashhad

Apr 2013 1St Place in International IranOpen, Rescue Robot League, Tehean City, Iran

Jun 2013 1St Place in International Amirkabir University RoboCup, Rescue Robot League, Tehean City, Iran



Publication

Control Humanoid Robot using Intelligent Optimization Algorithms Fusion with Fourier series
The 9th International Conference on Computational Intelligence and Communication Networks (IEEE 2017)

Partitioning Clustering by ABC and Tabu Search Algorithm Fusion

13th Iranian Conference on Fuzzy Systems (IFSC 2013)

A Heuristic Method for Humanoid Robot Falling Detection Using Gyro Sensors

Robocop IranOpen 2011 Symposium and 1st Iran's Joint Conference of Robotics& AI (2011)