

Hamed Zaghaghi

C++ SOFTWARE DEVELOPER · MACHINE LEARNING ENGINEER

Tehran, IRAN

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"Help Machine Learning Researchers To Build Production Ready Softwares and Services."

Summary

Experienced C/C++ and Python developer and team leader with a demonstrated history of working in the artificial intelligence industry. Skilled in Machine Learning, Computer Science and Linux Programming.

Areas Of Expertise

Team Management	Agile Methodolgy, Scrum Framework
Back End Development	C/C++, Python, POCO, Boost
Front End Development	Qt, JUCE, React Native
Machine Learning	Tensorflow, Kaldi
DevOps	Docker, Docker Compose, Portainer, Kubernetes
Language	Persian (Native), English (Professional working proficiency), French (Elementry)

Work Experience

Amer Andish Hooshmand

CHIEF TECHNOLOGY OFFICER

Tehran, Iran

Jun. 2018 - Present

- Expertly advise colleagues, mainly CEO, on new technologies and recent trends and researches in machine learning
- Help our machine learning researchers to build real-world services
- Provide sound technical leadership in all aspects of company's business
- Discover new applications of machine learning in industry
- Discover and implement new technologies that yield competitive advantage
- Help colleagues use technology profitably
- Deploy machine learning services in company's servers

Amer Andish Hooshmand

MACHINE LEARNING ENGINEER

Tehran, Iran

Jul. 2017 - Present

- Serve as team leader and C++ developer for the "Botava", an enterprise chatbot platform with Farsi language support
- Implemented "Ordakak", a rule-based inverse text normalizer for Farsi language in Python
- Implemented web services for "Farsava", an automatic Farsi speech recognition, in C++ using Kaldi library
- Implemented "Farsava" mobile application using React Native

Algodrill

C++ DEVELOPER | PART-TIME

Tehran, Iran

2016 - 2017

- Developed a desktop client application in C++ using JUCE framework to view various charts and tables from "Algodrill" trading engine server
- Developed a nosql database library for fast store and retrieve of time-series key-value data
- Developed an order generator to test trading engine server

Douran Group

TEAM LEADER

Tehran, Iran

2014 - 2017

- Developed Speech/Non-Speech Classifier in Python using Scikit-Learn library
- Developed a Farsi text classifier based on FastText library
- Mostly Served as team leader for machine learning section to help researchers develop production-ready services
- Served as team leader of an adult image detection service in Python using Caffe library
- Acted as team leader for the creation of an in-house dashboard web application using HTML5, CSS and ReactJS

Douran Group

C++ DEVELOPER

Tehran, Iran

2011 - 2017

- Served as main developer of a high-bandwidth DDoS detection system in C and C++ using DPDK library
- Developed an IPS/IDS log analyzer in C++ using Poco and Fastbit libraries
- Served as C kernel developer of an IPS/IDS system
- Developed adult image detection software from matlab codes written by machine learning researchers
- Developed a security visualization platform for plotting IPS/IDS logs and events in Java using Processing library

Payam-E-Noor University

C++ & PYTHON LECTURER | PART-TIME

- C++ Programming
- Python Programming
- Computer Graphics

Mashhad, Iran

2009 - 2011

Belender Foundation

C/C++ OPENSOURCE DEVELOPER | PART-TIME

- Developed real-time 2D filtering effects in Blender game engine, helping game makers using image effects in their games
- Developed sun/sky atmospheric scattering rendering in Blender internal render engine
- Developed a texture displacement system for realistic rendering of ocean waves, helping Promotion Studios to create "Light House" animated short movie

Mashhad, Iran

2007 - 2011

Education

Udacity

udacity.com

SELF-DRIVING CAR NANODEGREE - 1ST TERM

2017

- Behavioral Cloning (source)
- Traffic Sign Classifier (source)
- Lane Line Detection (source)

University of Tehran

Tehran, IRAN

MASTER'S DEGREE IN COMPUTER ENGINEERING - ALGORITHMS AND COMPUTATIONS

2008

- Thesis: Distributed Run-time Verification and its implementation on a Massively Multiplayer Online Game

Sadjad University of Technology

Mashhad, IRAN

BACHELOR'S DEGREE IN COMPUTER SOFTWARE ENGINEERING

2005

- Thesis: Automated quality control for dashboard of peugeot 206 using image processing

Certificates

2015 **Professional Scrum Master**, Rayzan Samaneh Gostar

Tehran, IRAN

Honors & Awards

2005 **5th place**, First Nationwide Programming Contest

Mazandaran, IRAN

2003 **9th place**, ACM International Collegiate Programming Contest - Tehran Regional Contest.

Tehran, IRAN

2002 **13th place**, ACM International Collegiate Programming Contest - Tehran Regional Contest.

Tehran, IRAN