Mohammad Taghipour

Data & System Analyst, Senior Software Developer

CONTACT

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TECHNICAL SKILLS

Ful-Stack Python Developer (Python, Django + REST Framework, JavaScript ES6+, jQuery, React, Kendo UI, CSS3, Bootstrap, Sass, etc.)

DataBase Administration (PostgreSQL DBA, PL/pgSQL, Query Planning and Optimization, Indexing, Data Warehouse Design, ETL Services)

Big Data (Mongo DB + Python Driver, Apache Spark, Map-Reduce, *All Python Stack*)

Business Intelligence, ETL, Data Analysis (Power BI, Jasper Soft BI Platform, Tableau Desktop, MS Excel)

IT Management & DevOps (Docker, git, Jira, Test Driven Development, Travis CI, SRS, SDD, ITIL, MS Project, Help Desk)

Data Science and Machine Learning (Apache Lucene (Java SE) for NLP, Python Stack libs like numpy, pandas, sklearn etc.)

UI/UX Design and Computer Graphics (Figma, 3Ds Max, Adobe Suite, MS Visio)

General (MS Windows, Office, Ubuntu, CentOS, Shell Script, etc.)

Cloud Skills (AWS, Atlas)

Hobbies (C#, ASP.Net Core + Xamarin Android + Syncfusion Libs, MS SQL Server, Unity Engine, Various CMSs and BBs etc.)

SUMMARY

Dedicated and experienced system analyst with hands-on experience in Data Science and BI solutions alongside with Full-stack software development. With more than ten years of experience in managing and using a myriad of IT-related technologies in a handful of small-to-national projects, I am looking for an opportunity to work in an international and possibly high-tech environment.

With proven experiences in designing solutions from scratch, covering all the customers necessities and overcoming most of DevOps problems, and successfully develop and deliver it to the production environment, I can be an asset to any IT-related organization.

Professional Experience

Senior Software Developer, Lead System Designer   2011 – Present
ICT Research Institute, ACECR,

As my organization is a part of the biggest Research and Technology Organizations (RTO) in Iran, We work on a broad range of small-to-national sized IT projects. Most of my responsibilities as a team leader and senior developer are to:

- Lead, design, develop, analysis, test and implement new software platforms for myriad of projects (below),
- Regularly do research about new IT-related technologies and how to transfer them to actual projects
- Frequently communicate with customers and project stakeholders, obtain their viewpoints and requirements, and convert them to design documents and then to actual platform components,
- Manage team members and Inspect written codes for accuracy and validity,
- Do all the necessary work to deliver the projects in a pre-defined time, money and quality

A brief list of the most important projects that I was involved are:

> **Project 1:** A Dynamic **Survey Platform** for Assessing the National Gender Digital Divide
> **Position:** Full-Stack Python Developer
> **Technologies I Used**: Ubuntu, Python Django, Django Rest, PostgreSQL, Kendo UI, etc.
> **Output**: A Comprehensive Portal available at http://survey.ictrc.ac.ir/

> **Project 2:** A Comprehensive **Text Mining Platform** for Persian News Agencies
> **Position:** Lead System Designer, Data Analyst and Senior Developer (UI-UX,DB)
> **Technologies I Used**: NLP Tools and Methods (Python), Python Django, PostgreSQL,Word Cloud, D3.js
> **Output**: A Comprehensive NLP Portal available at http://payesh.ictrc.ac.ir/

> **Project 3:** Integrated **Outage Management System** and Business Intelligence Solution for Defects and Outages in Electrical Grids (Iran Power Transmission & Distribution Company - Tavanir)
> **Position:** Project Manager, Data Analyst and Senior Developer (DB, BI)
> **Technologies I Used:** BI using Jasper Server ™ – ETL and Data Integration using Python, Oracle DB, PostgreSQL and Microsoft SQL Server, UI & UX using Python Django
> **Output:** A Complete BI Platform for Tavanir Mother Corporation

> **Project 4:** Comprehensive **Educational Program** for Iranian Workforce
> **Description**: An International Project between ICTRC and Japan International Cooperation Agency (JICA)
> **Position:** Iranian-side Focal Point – Technical Manager
> **Technologies I Used**: E-Learning Methods and Techs. (Specially EPUB 3.0) Java SE, Moodle LMS
> **Output**: Five Comprehensive Agri. e-Content + Moodle LMS Platform

> **Project 5: Plagiarism Detection** on Theses of University of Tehran
> **Position:** Data Analyst, Core NLP Developer
> **Technologies I Used**: Java SE, Google Guava, Apache Lucene + Apache POI
> **Output**: A Cross-Check Matrix with Reports on more than 10,000 Theses, A portal to check new thesis

Project 6: Integrated Phone payment system for MCI (One of the Largest Mobile Carriers in Iran)
Position: Data Scientist, Core Developer
Technologies I Used: BI (Jasper Server), Mongo DB Reporting, IVR Designer (Python Django, jQuery, Kendo UI, etc.)
Output: : BI Platform for MCI (Not Public)

Other Notable Projects and Activities:

✓ A Total Solution for management of work groups and committees related to the development of e-government in Iran

✓ Developing a Public-Private Partnership (PPP) roadmap between ACECR and Science and Technology Vice-Presidency for improving the ICT Status of the I.R. Iran

✓ Developing a model for evaluation of Science and Technology Parks (STPs) for Ministry of Science and Technology (MSRT), using EFQM & CMMI models

✓ National Reports on the status of Science & Technology in the I.R. Iran (for MSRT)

Professional Training Studies

Complete **Python** Developer in 2020 Zero to Mastery (Udemy)
Design Patterns in **Python** (Udemy)
Build a Backend **REST API** with Python & Django (Udemy)

JavaScript The Complete Guide 2020 (Beginner + Advanced) (Udemy)
React The Complete Guide (incl Hooks, React Router, Redux) (Udemy)
MongoDB - The Complete Developer's Guide 2020 (Udemy)

The **Git** & Github Bootcamp (Udemy)
Docker and **Kubernetes** The Complete Guide (Udemy)
AWS Certified Solutions Architect - Associate (Udemy)
Microsoft **Power BI** - A Complete Introduction (Udemy)

Data Structures & Algorithms (Udacity)
Machine Learning AZ™ Hands-On Python & R In Data Science (Udemy)
Machine Learning (Andrew NG)
Deep Learning Specialization (Andrew NG.)
Data Science at Scale Specialization (University of Washington)
Mathematics for Machine Learning Specialization (Imperial College London)
Methods and Statistics in Social Sciences Specialization (University of Amsterdam)
Natural Language Processing (Stanford University, Jurafsky and. Manning)

Education & Certificates

M.Sc. 2008-2010	**System Engineering, Operations Research** *(GPA: 18.35)* Faculty of Engineering, University of Tehran (Biggest University and 4th in QS World 2020 in Iran), Tehran, Iran
B.Sc. 2002-2007	**Industrial Engineering** *(GPA: 16.63)* Faculty of Engineering, Sharif University of Tech. (1st in QS World 2020 and most respected university in Iran), Tehran, Iran
Diploma 1999-2002	**Mathematics and Physics** "Allame Helli" High School (Special school for the gifted), Tehran, Iran
Language Certificates	**IELTS**: Band 7.0 (Feb. 2018) **GRE**: 320 (Q:168 – V:152 – W:3.5) (Dec. 2018)

SOFT SKILLS

Problem Formulation & Solving

Creative Thinking

Team work

LANGUAGES

English (IETLS Band 7.0)
Persian (Native)
Arabic, German

HOBBIES

Chess (Champion of ACECR Tournament, 2018 and 2019)
Watching movies and series