

## Mostafa Rokooie

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PERSONAL INFORMATION	Date of birth: February 12, 1988 Marital status: Married	Gender: Male Citizen of: Iran
EDUCATION	<b>Iran University of Science and Technology</b> , Tehran, Iran B.Sc., Computer Engineering - Software specialization	<b>From 2005</b>
	<b>Allame Helli High school</b> , Tehran, Iran High school Diploma <i>National Organization for Development of Exceptional Talents</i>	<b>2001 - 2005</b>
WORK EXPERIENCE	<b>Bayan Leading Group</b> , Tehran, Iran <i>Senior Developer</i>	<b>April 2011 to date</b>
	Email solution - <a href="http://hod.ir">hod.ir</a> , <i>Head of back-end team and JavaScript team</i> <ul style="list-style-type: none"><li>• Designed and developed Hod's web interface. Implemented a JavaScript framework, allowed us to build rich one-page web applications.</li><li>• Researched about and used fault-tolerant distributed file-systems. I setup and got professional in MooseFS and GlusterFS.</li><li>• Coded in C++, Python and JavaScript, Used Flask, MongoDB, JSClass and etc in a team of 7 developers.</li></ul>	
	Bayan Programming Contest platform - <a href="http://contest.bayan.ir">contest.bayan.ir</a> , <i>Head of team</i> <ul style="list-style-type: none"><li>• Implemented contest panel and management website. A one-page web that allows participants to read and solve problems, see the ranking and etc.</li><li>• The functionality of website is completely close to the Google CodeJam.</li><li>• Coded in Python and JavaScript, Used Django and PostgreSQL in a team of 4 developers.</li></ul>	
	Central website of Bayan services - <a href="http://bayan.ir">bayan.ir</a> , <i>Senior Developer</i> <ul style="list-style-type: none"><li>• Re-implemented single-signon back-end and front-end website. Re-implementation increased user access capacity and made the code more extensible.</li><li>• Coded in Python and JavaScript, Used Flask and MongoDB in a team of 3 developers.</li></ul>	
	<b>Karizan Telecomm</b> , Tehran, Iran <i>Senior Developer and Project Manager</i>	<b>August 2007 to April 2011</b>
	Linux-based control boards - Used to control microwave radios in telecommunication stations, <i>Head of software development</i> <ul style="list-style-type: none"><li>• Enable alarm collection and remote control for the main device via SNMP protocol.</li><li>• Installed a custom version of Linux on an ARM9-based hardware.</li><li>• Using routing and bridging algorithms to make boards network enabled in a complex network with weak connections in some parts of it.</li></ul>	

- Coded in C, C++ and Shell scripts, Used OpenSNMP, OSPF and STP in a team of 3 people.
- Modified Linux kernel to change USB bus driver decisions.

SMSC Test Module - GSM Network simulator, *Head of team*

- Real time simulation of GSM network nodes like MSC, VLR, HLR and MS.
- Apply load tests to SMSC servers with different algorithms.
- Implemented a part of MAP protocol on TCAP in SS7 protocol stack.
- Coded in C and C++, Used ASN1, POSIX threads and etc in a team of 2 people.

Other projects - Implementation in various fields

- Content conversion manager for WAP network gateway
- Network Monitoring System for Karizan Telemetry devices.
- Software of a watching hardware
- An accurate astronomical clock library for microcontroller usage
- Coded in C, C++ and C#, Used MSSQL, GSM module, HTTP protocol and MS Windows APIs and most of projects done in teams.

**Azm Electronics**, Tehran, Iran  
*Software Developer*

**August 2006 to August 2007**

BID - Company's after-sale services manager

- Implemented a software to issue an smart card for each customers. This software will enable tracking done services and installed parts on the cars for the company.
- Used technologies: C# and Java, MSSQL, MyFair contact less cards, Barcode reader

INTERESTS AND  
ACHIEVEMENTS

**Robocup**, For about 4 years, I was member of high school and university teams in Robocup worldcup.

- [2D Soccer Simulation, Worldcup](#), Placed 3rd with team Mersad, Lisbon 2004
- [Soccer Coach Simulation, Worldcup](#), Placed 3rd with team Caspian, Bremen 2006

**ACM ICPC**, I had participated in ACM-ICPC regional contest 4 times (2007 - 2010) as a member of IUST team.

- Runner up in ACM-ICPC World final, 2009
- ACM-ICPC Regional Contest - Sharif University of Technology, Placed 4th, two times, 2009 and 2010

**Bayan Programming Contest**, Organization committee

Bayan Programming Contest is an ACM-ICPC like programming contest, it's also close to Google CodeJam style.

[contest.bayan.ir](http://contest.bayan.ir) - [en.bayancontest.ir](http://en.bayancontest.ir)

- Head of committee, 2012/13 International Contest, In cooperation with CodeForces.com
- Member of committee, 2011 Contest

**IranOpen Robocup Competitions**, Technical committee

IranOpen is an official open competitions of Robocup International Federation.

- Member of technical committee, Soccer Simulation league, Four times in 2006, 2007, 2008 and 2011.

**Love Arts and interested in travelling**

I'm not talented in being an artist but really love listening to Music, watching Theater and watching Movies. I also travelled to many destinations in Asia and Europe.

TEACHING  
EXPERIENCE

**Iran University of Science and Technology**, Tehran, Iran      **Autumn 2009/10**  
*Data structures and Algorithm design*, Teacher Assistant of Dr. Naderi

- Done 2-hour per week lectures about details of implementation of taught algorithms and data structures in Java.
- Was responsible for design exercises and problems for students.
- Each lecture session was held with participation of about 50 students.

**Allame Helli Middle school**, Tehran, Iran  
*Computer Programming*, Teacher

**2005 - 2010**

- Member of school's Computer group and responsible for everything about classes and students' scores.
- Taught how to start programming computers with Pascal and basic algorithms to talented students.

TECHNICAL SKILLS

- Fluent coder in C, C++, Python and JavaScript
- Fairly experienced in C#, ASP.net, Java and PHP
- Was teacher of Pascal, Delphi and C++
- Know how to write UNIX shell scripts, GNU makefiles, HTML and CSS
- Done team-based projects with Mercurial, Git and SVN
- Experienced in web-frameworks Django and Flask.
- Experienced in client-side coding, Object Oriented programming with JavaScript, JSClass, JQuery
- Experienced in Google API, specially Google Map API.
- Experienced in SQL querying, MySQL, PostgreSQL and MongoDB
- Experienced in some distributed file systems like MooseFS and Gluster FS.
- Familiar with Agile, Scrum and RUP and prepared SRS, SDD, SQAP and UML diagrams
- Worked with Redmine and Jira (also GreenHopper and Fisheye)
- Good knowledge about TCP/IP and SS7 protocol stacks
- Implemented and worked with HTTP, POP, IMAP and SMTP
- Setup and configured Apache, Postfix, Dovecot and Cyrus
- Wrote drivers for devices like GPS, GSM, SmartCard readers and Barcode scanners
- Coded, cross-compiled and ran Linux on AVR, PIC and ARM
- Know how to make documents with L<sup>A</sup>T<sub>E</sub>X
- Experienced in using Vi, Eclipse, PyCharm and MS Visual Studio
- Worked with MATLAB, Simulink, Altium Designer (Protel) and LabVIEW
- Installed, used and sometimes modified Linux, FreeBSD and Microsoft Windows

LANGUAGES

Farsi: Native language  
English: Speaking fluently, reading/writing with high proficiency

REFERENCES

Available upon request