

Dr. Mohammad Ali Ghaderi

South San Francisco (open to relocate)
Green Card

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Summary

- Experienced in all phases of the software development lifecycle
- Full stack web developer and multilingual programmer for 5+ years
- Fast learner and researcher of new technologies
- Talented in problem-solving and critical thinking

Technical Skills

Languages:	C# .NET (10+),	JavaScript (5+)	TypeScript (5+)	Java (3+)
Web Technologies:	ASP.NET MVC/WF (7+)	Web Services (5+)	Dotnet Core (2)	Web API (5+)
	Angular (3+)	VueJs (3)	React (1)	
DBMS and Tools:	SQL Server 2000-19 (5+)	RedGateSQL Toolbelt(5+)	Postgres (3+)	
Relevant concepts:	OOA/D (10+)	Agile (Scrum) (6+)	RUP (5+)	
Testing:	TDD (3+)	MS Testing, xUnit (5+)	Jest (3+)	
Cloud:	Amazon AWS (3+)	MS Azure (2+)	Heroku (2+)	Google Cloud (2)
CASE:	Enterprise Architect (5+)	Rational Rose (2+)	PlantUML (1)	

Professional Experience

Software Architect, iSonoHealth Inc.

1 July 2020 – Present

395 Oyster Point Blvd #501 South San Francisco, CA 94080

- Designed and developed a desktop app Microservices architecture for transferring ultrasound images from a proprietary hardware to a cloud-based system and perform AI-based diagnosis

Software Engineer, Associate II, Cyber Group Inc.

March 2017 – July 2020 (3 year)

- Developed and maintained several microservices Node.js, Express.js, Vue.js, PostgreSQL and Ruby on Rails apps deployed on Heroku and AWS
- Designed a novel architecture for a data gathering platform to import POS data from geographically distributed places and developed the system using HangFire, ASP.NET Web API, SQL Server, AngularJS and more.
- Published several papers of the innovative designs and state-of-the-art solutions to common software engineering and testing problems (see technical publications section)
- Created Continuous Integration / Continuous delivery using Octopus, Azure DevOps, CircleCI, CodeDeploy, etc. for web applications and Windows services for on-premise, Microsoft Azure, AWS and Heroku

Software Engineer (internship), AMI Monitoring Inc.

Aug 2015 – Jan 2016 (6 months)

- Designed and developed a scalable database schema and data access layer in C# (using Dapper .NET) for storing and accessing Terabytes of ECG data in SQL Server
- Provided three project work breakdown structure and time estimation

- Prepared more than 200 pages of various software documents (Vision, Requirements, ...)

Teaching Assistant (Ph.D. Student), *the University of Texas at Dallas*

Aug 2012 – June 2016 (4 years)

- Designed, developed and deployed a Telemedicine disease management platform from scratch
- Utilized various technologies such as ASP.NET MVC, Web API, OAuth 2.0, AngularJS, Bootstrap UI, NHibernate, Web Sockets, WebRTC, Cordova, Native Android, OpenCV, HL7, Amazon AWS and more
- Prepared documents for installing Hadoop and developing Map Reduce and Apache Spark projects

Senior Software Engineer, Chief Architect (C#, ASP.NET), *Rayan Pardaz Kavosh*

Sep 2009– July 2012 (3 years)

- Coached a team of seven developers
- Developed a RAD framework (C#, ASP.Net, and Ext.NET) with many features including a CRUD code generator, Role-based security engine, BI dashboard, Manual workflow engine based on Windows Workflow Foundation (WWF4), Report generator engine (StimulReport), exception handling, logging, transaction management and more
- Optimized bottleneck SQL Server stored procedures for large reports
- Contributed to design and development of several Management Information Systems (500+ tables, 10,000+ users)

Software Developer, *Raahbar Information Co.*,

Apr 2007- Oct 2007 (7 months)

- Contributed to development of a nationwide ASP.NET web for Iran Ministry of Commerce
- Developed a SMS sender application to make a user-friendly notification of workflow states

Freelance – Contractor, *Mohsoft*

April 2005– Sep 2009 (4 years)

- Designed and developed several web applications and a CMS used by several organizations
- Consulted in developing a Document Management System
- Consulted in database design for a Computerized Maintenance Management System (CMMS)

Technical Publication

- Integrating Jasmine and Selenium for Web UI Testing (33,000+ views, 400+ downloads, 15-Mar-2014)
 - <https://www.codeproject.com/Articles/744686/Integrating-Jasmine-and-Selenium-for-Web-UI-Testin>
- Build Configurations for Publishing SQL Server Database Projects (Views: 1,600, 25+ downloads, 30-Dec-2018)
 - <https://www.codeproject.com/Articles/1273050/Build-Configurations-for-Publishing-SQL-Server-Dat>
- Distributed System Architecture for Data Gathering and Analysis
 - <https://www.linkedin.com/pulse/distributed-system-architecture-data-gathering-analysis-ghaderi/>
- Simulation Testing of External APIs using Self-Hosted ASP.NET Web API Applications
 - <https://www.linkedin.com/pulse/simulation-testing-external-apis-using-self-hosted-aspnet-ghaderi/>

Education

Ph.D. (+Master) in Software Engineering , THE UNIVERSITY OF TEXAS AT DALLAS	Aug 2012 - Nov 2016
<i>Dissertation: A flexible software platform for disease management</i>	GPA: 3.86
Master of Information Technology Engineering , UNIVERSITY OF TEHRAN	Sep 2008 - Sep 2011
<i>Thesis: A meta-search engine based on user pattern and feature fusion</i>	GPA: 4
Bachelor of Scientific Applied Computer Software , Shiraz Islamic Azad University	Sep 2002 - Feb 2008
<i>Project: Designing and implementing a management information system for university labs</i>	GPA: 17/20