

# Mohammad Javad **Badiei**

SOFTWARE/DEVOPS ENGINEER · SOLUTION ARCHITECT · SYSTEM ADMINISTRATOR

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## Summary

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Having been a self-taught engineer in the IT industry for 12+ years, I constantly explore various disciplines to broaden my own professional pursuits, integrating a computer-science background with new technologies and tools. Through this journey, I worked on multiple teams with numerous responsibilities, including Solution Architect, Devops Engineer, Backend Developer, Frontend Developer, and so on, and I was exposed to multiple technologies such as .Net, Python, Golang, Kubernetes, Azure, AWS, Terraform, as well as many other tools and technologies. My current areas of interest and exploration are Cloud and Infrastructure Security, Blockchain technologies and Financial Markets (many of which deal with cryptos and precious metals). I begin projects by thoroughly researching and then developing my ideas through creative thinking.

## Education

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### Semnan University

Semnan, Iran

MASTER IN ARTIFICIAL INTELLIGENCE

Sep. 2016 - Feb. 2020

- Thesis: A Deep Learning Approach for Time-Series Analysis and Forecasting Financial Data.
- In order to analyze and predict the market we compared many ML techniques and algorithms, including deep learning and our fusion approach. Moreover, instead of just looking at accuracy, we developed a virtual trade system that attempts to estimate and measure profitability based upon prediction of these methods. Finally, we proposed the fusion approach as our new method that performed much better than other approaches by far.

### Sadjad University of Technology

Mashhad, Iran

BACHELOR IN SOFTWARE ENGINEERING

Jan. 2015 - Sep. 2016

- Thesis project: An Intrusion Detection System Based on KDD-99 Data using Data Mining Techniques and Feature Selection.
- In my project, I applied decision trees to the KDD-99. Furthermore, I applied and implemented many other sophisticated algorithms and techniques on the problem that were beyond the scope of my project.

### Sadjad University of Technology

Mashhad, Iran

ASSOCIATE IN INFORMATION TECHNOLOGY

Sep. 2010 - Sep. 2014

## Skills

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<b>Programming</b>	Proficient: C#, PHP, Python   Competent: Golang, JavaScript, C/C++, JAVA   Familiar: Node.JS, Scala, LaTeX
<b>Frameworks</b>	.Net, Laravel, Flask, Django, DRF, Gin, Bootstrap
<b>&amp; Library</b>	Keras, TensorFlow, Scikit-learn, Matplotlib, Dask, pyShark, Scrapy, Jinja
<b>OS</b>	Linux (Archlinux, CentOS, Debian, Ubuntu, Kali), Windows, FreeBSD, OpenBSD
<b>DevOps</b>	Docker, Kubernetes, OpenShift, AWS, GCP, Rancher, Terraform, Git, Gitlab CI, Elastic stack (ELK)
<b>Other</b>	Virtualization (VMWare, KVM, Proxmox, Hyper-V), Mikrotik, OpenWRT, WSO2 (IS, APIM, EI), Gravitee (APIM, AM), Shell Scripting, FreeNAS, pfSense, BurpSuite, OWASP Zap proxy, Wireshark, Nmap, Metasploit, SqlMap, Hydra, Nessus, Nginx, IIS, DNS, LDAP, SMTP, OData, OpenAPI, Swagger, Asterisk, Elastix, Blockchain, CMSes (Wordpress, Joomla, Drupal, ...) and etc.
<b>Languages</b>	Persian (mother-tongue), English (fluent)

## Experience

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### Techofen (HFMS co.)

Tehran, Iran

CIO, HEAD OF R&D

Mar. 2021 - May. 2023

- Developing and mentoring teams of R&D scientists and software engineers towards our common goals
- Maintained and expanded Virtual and Physical Corporate Infrastructure and related services.
- Performed pen tests and security checks over different business applications and network devices of the organization.
- Develop all of our Kubernetes cluster installation process (IaC)
- Migrating DSCP systems from our K8s based deployment to a on-premises static deployment at our customer's data center

- Developing a migration plan from our .Net platforms to Django after a comprehensive R&D about alternative Python services for our .net solutions (schedulers, messaging platforms, databases, etc.)
- Designed an overall service architecture and pipelines for Insurance Retail API SaaS products using the microservices architecture.
- Developing a platform for creating websites for businesses that relies on open-source SSGs, Git, Golang, and some APIs inside the bizofen platform
- Studying which EU country would be the ideal location for us to expand our market globally

### **Inoteam.io (WhyLab Inc.)**

*Toronto, Canada*

DEVOPS ENGINEER & SECURITY CONSULTANT - (REMOTE, PART-TIME \*ALLOWED BY HFMS)

*Jun. 2021 - May. 2022*

- Containerized all parts of platform to encapsulate them into kubernetes and orchestrate them as well
- Using K3s on Lightsail instances on AWS, configured and run an economic Kubernetes cluster
- Improved the maintainability and scalability in ML-based part of system
- Developed CI/CD pipelines for all applications on Gitlab-CI using Docker, DigitalOcean DOKS, AWS Lambda, and S3 on Amazon Web Services.
- Port some part of system to a serverless schema to deploy them on AWS Lambda
- Develop a module utilizing Amazon SES/Lambda to provide mail services for platform apps
- Research and development on automated chat bot frameworks based on AI to use in our debrief module has resulted in an up and running platform using RASA and a simple frontend with several custom modules that work with core and debrief sections
- Conducting coding guidelines and perform penetration tests according to OWASP standards for Core Modules

### **Saman Insurance Co.**

*Tehran, Iran*

SOFTWARE & DEVOPS ENGINEER

*Mar. 2018 - Jun. 2020*

- Develops numerous web services for Online Insurance Service and deploys the country's first APIs (OpenAPIs) for the insurance industry
- API Manager and web service access management (in order to deliver OpenAPI)
- Develop an integration layer that connects services and systems across the entire company as well as partner systems and third parties
- Channel manager for microservices that handle all customer interactions including SMS, Email, and Telegram
- A comprehensive logs and monitoring solution based on the ELK stack
- Building Rancher/Kubernetes clusters with more than 40 nodes for deploying apps in way that is highly available, self-healing, and platform-independent environment
- Setting up the pfSense firewall network in ArvanCloud as well as Cisco ASA for on-premises
- Several negotiations with regulators for modifying some regulations to make Online Insurance possible

### **SaramadFarda Investments Co.**

*Tehran, Iran*

IT CONSULTANT

*Feb. 2018 - May. 2020*

- Supervising, evaluating, and monitoring commercial partners/contractors/coworkers, and revising informatics contracts (for the organization and its subsidiaries)
- Consulting on the IT infrastructure for PLANNET (one of Iran's first innovation factory's eight accelerators for startups)
- Providing IT equipment procurement consulting services for the company and subsidiaries (Servers, Routers, Firewalls, Switches, etc.)

### **Bizotech**

*Mashhad, Iran*

TECH LEAD & DEVOPS ENGINEER

*Jan. 2015 - Sep. 2016*

- Developed and deployed the entire solution for TABARAN-Hotel IPTV system (including IPTV, MediaServer, MediaBox clients based on ARM TV boxes, etc.)
- Customized Linux and Android ROMs for ARM Setup Box clients (based on Rockchip chips)
- *MailCraft* : Developed a high-end email marketing and newsletter solution built on top of open source technologies. (with a spam score:9.9/10. As a point of comparison, Gmail spam score in this metric system is 7/10)
- *PiL.ink* : Popular URL shortener used by content developers
- *PeskyMail* : A disposable email solution with a RESTful API
- Developed interactive chatbots on Telegram platforms before TelegramBots became available
- Built a docker ready template for building marketing and portfolio websites at the speed of an enter key

### **Pioneers of Open Source Co.**

*Mashhad, Iran*

WEB DEVELOPER & SYSTEM ADMINISTRATOR

*Jan. 2014 - Nov. 2014*

- *XaminHost* : establishing the company's Web Hosting services
- *WebCare* : Monitoring uptime (observing site availability from multiple locations)
- Piloted more than ten ideas for MVP projects (that never made it to market)
- Developed the company's client portal and website
- Acquired expertise in penetration testing areas, primarily targeting web applications and software
- Have participated in hacking competitions

### **Novin Web Host**

*Mashhad, Iran*

WEB DEVELOPER & SYSTEM ADMINISTRATOR

*Jan. 2012 - Oct. 2012*

- Built a client's portal (based on WHMCS) and a website (based on Joomla), as well as many custom plugins for automation and integration services. (including payment, VM auto-creation, Hosting self-service, etc.)
- Monitor the server's event logs, performance logs, data growth on the network, and check the nightly status of server backups

## Aria Data Net

WEB DEVELOPER

Tehran, Iran  
Aug. 2009, Nov. 2011

- Developed more than 10 websites for businesses and institutions
- Developed a client portal and e-commerce website for company products
- A mock-up of Refahi.ir (for getting the contract in government tenders)

## Miscellaneous

FREELANCE

Mashhad, Iran  
Apr. 2007, Present

- Built more than 50 websites for companies and institutions and started more than 50 MVP projects
- The development and deployment of a website and an LMS. (Sarallah High school-2010)
- Deployment of an IPPBX on top of opensource technologies (Elastix, Asterisk) in Imam Reza Hospital ITC and ECO Cultural Institute
- Developing a comprehensive compensation calculation software for a network marketing startup
- Developed the PAXCHI Logistics Company's website, ERP/CRM, and infrastructure
- ParsehGiG Free Web Hosting for Iranians (2008-2009)

## Certifications & Training

2023	<b>Machine Learning</b> , Certificate number: HT84EQSZZWLT	Coursera
2022	<b>Architecting with Google Kubernetes Engine Specialization</b> , Certificate number: A65KMLB6QW4L	Coursera
2022	<b>Architecting with Google Kubernetes Engine: Workloads</b> , Certificate number: 4QPCPPBZ53BB	Coursera
2022	<b>Architecting with Google Kubernetes Engine: Production</b> , Certificate number: LSLD6P2HUQU9	Coursera
2022	<b>Architecting with Google Kubernetes Engine: Foundations</b> , Certificate number: 923RHRMFH3E9	Coursera
2022	<b>Google Cloud Fundamentals: Core Infrastructure</b> , Certificate number: KSWRXXKHJ6N	Coursera
2022	<b>Google Cloud Fundamentals for AWS Professionals</b> , Certificate number: TBRSEBMBBCAQ	Coursera
2018	<b>Microsoft Certified Systems Administrator (MCSA)</b> , ( 416h )   Certificate number: 29179449	IRTVTO
2017	<b>Mikrotik Certified Network Associate (MTCNA)</b> , ( 64h )   Certificate number: 26394787	IRTVTO
2021	<b>Python Programming</b> , ( 75h )   Certificate number: 32987752	IRTVTO
2021	<b>PHP Web Developing</b> , ( 75h )   Certificate number: 33021195	IRTVTO
2019	<b>C# Programming (Windows Apps)</b> , ( 100h )   Certificate number: 29179449	IRTVTO
2021	<b>C# Programming (Web Apps)</b> , ( 100h )	IRTVTO
2021	<b>Web Designer (CIW)</b> , ( 174h )   Certificate number: 33001668	IRTVTO
2012	<b>Linux Professional Institute LPIC-1 &amp; LPIC-2</b> , Self-study	Self-Study
2014	<b>EC-Council CEH</b> , Self-study	Self-Study
2019	<b>Comptia Security+</b> , Self-study	Self-Study
2019	<b>Body Language Speech</b> , ( 16h )   Certificate number: 46275149	MPT (Austria)
2019	<b>Professional Negotiator</b> , ( 16h )	MPT (Austria)

## Extracurricular Activity

### Mashhad Linux User Group

CORE MEMBER

Mashhad, Iran  
Jan. 2009 - Sep. 2015

- Served as a member of the leading group for 2 years, conducted numerous group meetings and participated in founding the Mashhad Python Users group
- Taught several classes on LPIC1 topics and presented numerous presentations on Free Software and Linux related topics

### Mashhad Python User Group

CORE MEMBER

Mashhad, Iran  
Jan. 2009 - Sep. 2015

- Held several group meetings and provided Flask tutorials during sessions of group meetings
- Organized the first Hackathon event in Mashhad

### Mashhad Software Talks

MEMBER

Mashhad, Iran  
Jan. 2014 - Sep. 2015

- Deliver presentations on free software topics, such as its culture, laws, revenue, and business models
- Organizing the Mashhad Connect Conference

### GNOME Foundation, Ubuntu, LibreOffice, Drupal Project , ...

SENIOR MEMBER - PERSIAN TRANSLATION/LOCALIZATION TEAM

Iran  
Jun. 2012 - PRESENT

- Contributed to localizing Gnome, LibreOffice, Ubuntu, and Drupal for Persian-speaking users

# Honors & Awards

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## DOMESTIC

- 2021 **Ranked 41st**, Iranian National University (PhD) admission tests among over 1100 participants *Iran*
- 2018 **Ranked 13th**, Iranian National University (PhD) admission tests among over 1100 participants *Iran*
- 2016 **Ranked 678th**, Iranian National University (Master) admission tests among over 35000 participants *Iran*
- 2014 **Finalist, 6th Place**, National Festival of cyber security contest (IUT-APA : festival.nsec.ir) *Iran*
- 2014 **Finalist, 7th National Place**, ASIS Cyber Security Contest (ASISCTF) *Iran*

# Presentation

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## Mashhad Software Talks

*Mashhad, Iran*

PRESENTER FOR <BUSINESS MODELS FOR OPEN-SOURCE SOFTWARE>

*Aug. 2014*

- Introducing revenue models in free software and business models for open-source software

## Mashhad Software Talks

*Mashhad, Iran*

PRESENTER FOR <OPENSOURCE & FREE SOFTWARE LICENSES>

*Dec. 2013*

- Introduces open source and free licenses (GPL, MIT, BSD,...) as well as their comparison with each other

## Mashhad Linux Users Group

*Mashhad, Iran*

PRESENTER FOR <INTRODUCTION TO LINUX PROFESSIONAL CERTIFICATES>

*Mar. 2014*

- Provided information on Linux Professional Certificates and their benefits

## Mashhad Linux Users Group

*Mashhad, Iran*

PRESENTER FOR <COMPARISONS IN FREE WEB DEVELOPMENT PLATFORMS AND OPEN-SOURCE CMS>

*Dec. 2013*

- Review and compare free opensource web frameworks and content management systems

# Program Committees

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- 2015 **Organizer & Staff**, 1st Mashhad Connect Conference *SUT, Mashhad, Iran*
- 2014 **Organizer & Co-director**, 1st MashhadPUG Hackathon *POS, Mashhad, Iran*
- 2012 **Staff**, SFD Festival (Software Freedom Day) *IRU, Mashhad, Iran*

# References

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## Hojat Jahed

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