

MOHAMAD HASAN Rezaee

Technical Director & .Net Developer

Seeking for a Part time job

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ABOUT ME

I'm enthusiastic researcher and developer with having experience in development of micro-service backend and micro-frontend-based applications in SaaS startups and enterprises.

I am expert in both C# and Node.js for developing web/windows applications and I'm also familiar with python for developing and deploying ML/AI models.

Indeed, I'm proficient in designing high level software architectures and interpreting them into efficient and high-quality codes. I have strong problem-solving skills and a very fast learner. Offering advanced knowledge of in-demand programming languages and software's security aspects. Due to limitations I'm not AWS expert but I have a deep understanding about cloud computing infrastructures.

EDUCATION

M. Sc.

September 2015- September 2019 **Electrical Engineering**, Department of Electrical engineering from Shahed University, Tehran, Iran.

B. Sc.

September 2010- September 2014 **Electrical Engineering**, Department of Electrical engineering from Isfahan, Isfahan, Iran.

WORK EXPERIENCE

November 2021- present **Technical Director** at "Viravirast Co.", Shiraz, Iran. (Management and development of ongoing software projects), full-time – currently part-time.

January 2019- December 2022- **Volunteer Researcher** at "Shahed University", Tehran, Iran. (Working on PhC sensors and Lumerical training to fresh students), Part time.

March 2019- October 2021- **Full stack Developer** - Project Based, worldwide. (Working with different teams: Rayan Andishe Nasr Co., Parsina Pardazan e Aria, Upwork.) Full time.

May 2018- March 2019- **Computer Programmer** at "PulseWare Co.", Tehran, Iran. (Design web applications for banking purposes), Full time.

EDUCATIONAL HONORS AND AWARDS

- Member of Iran's National Elites Foundation, 2020.
- Top Researcher, Shahed University.

SKILLS AND STRENGTHS

- **Research:** Multiple Q1, Q2 and conference papers. Having strong ideation capabilities.
- **Software:** Micro-service, Clean Architecture, N-Tier, MVC, CQRS, MSSQL, MySQL, MongoDB, Multithreading, Async Programming, OOP,DDD, RESTful, gRPC, SOAP, API Gateway, WebSocket, G-Analytics, OpenAI, ChatGPT and QuickBooks APIs.
- **Programming Languages:** Python, C#, Nodejs, React.
- **CI/CD:** Scrum, Trello, Jira workflow, Azure DevOps and TFS.
- **Server Administration:** pm2, Nginx, IIS, Express.js.
- **Product design:** Agile Methodology, Continues * Activities.
- **Data mining and visualization:** python/pandas and MATLAB.
- **Deep learning:** Computer Vision, Tensorflow, Keras and Pytorch, Networks: AlexNet, MobileNet, UNet, Yolo, GAN.
- **Electrical Engineering:** HSPICE/PSPICE/ORCAD, Proteus, MATLAB.
- **General Software:** Microsoft Office™ tools (Word, Excel, PowerPoint) Good command of Microsoft.
- **3Ds and Animation:** 3Ds Max, Toon Boom, Blender.
- **Device:** Arduino, Raspberry Pie.

PORTFOLIO (In Persian)

- Web (Public Online Projects: Self-employment)
 - Microservice/Micro-frontend highly flexible AI-based proposed framework (most based on ChatGPT/ASR APIs):
 - <https://chatgptpeaz.ir>
 - <https://contentpeaz.ir>
 - <https://asrpeaz.ir>
 - <https://mosavver.com>
 - <https://nasiri-co.com> (Only Frontend)
 - <https://mosavver.com> (Micro-service)
 - <https://at-golnush.web.app> (Server-less App & Firebase)
 - <https://viravirast.com> (In Persian only. Backend Services (Microservice & AI services.)
- Windows Applications (WPF & Win Form)
 - Viratype ASR windows application: <https://viravirast.com/viratype>
 - Viravirast Word Addin: <https://viravirast.com/viravirast>
- Other Web Applications
 - Most of projects are organizational Applications which are not accessible publicly.

PROFESSIONAL ACCOMPLISHMENTS

- **Web/Win Development**
 - Developing bank ATM monitoring and switch/core transaction analysis software, 2018.
 - Design of web applications using asp.net Web Form, 2018.
 - Redesign bank transaction analysis software from Asp.net Web Form to Asp.net MVC, 2018.
 - Implementing Open edX open-source platform on Linux server for Persian, 2018
 - Developing GIS-based restful API services, 2019.
 - Developing micro-services using ocelot and JWT authentication, 2019.
 - Contributing to Insurance Assistant national project in C# Asp.net, 2019.
 - Developing Google map API-based apps, 2019.
 - Re-design of old ERP system for migrating to micro-service architecture, 2019.
 - Developing PWA online stores using PolymerJS, Firebase, 2020.

- Developing online store using React, 2020.
- Developing auto trader Web Form app using C#, 2021.
- Working on blockchain consensus algorithms, 2021.
- Developing Office Add-ins using C#, 2021.
- Architectural design and migrating a monolithic web application to microservices, 2022.
- Complete Design of the microservices architecture for AI-based text editing backend, 2022.
- VoIP implementation and integration using Aster Net – Issable/Elastix – 2022.
- AI-based speech-to-text WPF MDI application useful for deaf people, 2022.
- Developing Persian ASR speech-to-text application, 2022.
- ChatGPT based joint microservices using micro-service and micro-frontend techs, 2023.
- Implementing QuickBooks-Online API microservice for communicating with other services, Node.js, Chadko (Hillz Holdings Corp, CA), 2024.
- **Deep Learning:**
 - Introduction to artificial intelligence with Python
 - Image enhancement by using histogram analysis (Python), 2018.
 - Image crawling and labeling for preparing datasets in python, 2019.
 - Machine learning based Q/A on Persian poem verses with chatterbot NLP framework (Python), 2019.
 - Deep learning-based game using facial key-points tracking (Js), 2021.
 - Key-point detection in image (Python), 2021.
 - Shoe-Try-On with TfJs and ThreeJS, 2021.
 - Implementation of Punctuation restoration on English Text and Transformer network and pretrained model (Python), 2022.
 - Retrain and reconfigure the GAN/ESRGAN based network for image enhancement purposes (Python), 2022.
 - Basic computer vision-based tracker system based on Arduino, 2024.

Motivational Letter

After more than 6 years working in development of web and windows applications in C#, I have found a deep insight of software development and software architecture design.

During my last position as a software developer and product manager at the same time, I've got a deep understanding of challenges in agile software development process. Also, I have collaborated as a scrum master for 6 months. On the other hand, due to my interest in artificial intelligence and undeniable application of AI in future of software development, I've enriched myself with the concepts and I did successfully involve in several AI projects in most of development processes such as data acquisition, data preprocessing, training, testing and deploying AI models.

I think my good knowledge in both .Net, Js and Python and also my prior management roles such as product manager and scrum master, with my intensive hands-on experiences in AI exclusively on deep learning, will bring you a good contribution.

Also, I have worked with different project management tools such as Jira, Trello, TFS and Azure DevOps. I am a knowledgeable software architecture and I've successfully accomplished several tech stack migration tasks in industrial level.

Best Regards,
Mohammadhasan Rezaee