



# Mohammad R. Tayyebi

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## Professional Profile

An international competitor, national champion and undergraduate of computer engineering with professional experience in software development and team management. Seriously eager to learn, enjoy artistic problem solving and overcoming challenges with a view of achieving academic and scientific experience and certification. Fully energetic in working in teams and highly skilled in fundamental knowledge and skills of software engineering.

Being among 45 selected students out of 25339 and awarded in the most creditable scientific festival of Iran, known as Khwarizmi, even before attending university. Also taken part in the most popular skill-based competition of the world, WorldSkills, in 2017.

## Education

### **Bu-Ali Sina University Final Project:**

B. Sc. Computer Engineering Depression treatment using artificial intelligence and human behavioral  
March 2016 – July 2020 activation

### **Madani High School Major:**

Diploma and College Mathematics and Physics  
September 2013 – August 2018 Note: This major is the main choice to carry on higher education in engineering

## Professional Experience

**Project Manager** AtiNet Sina Parsian *NDA (2019)*

**Senior Developer** Rayan Electronic Andish  
Hegmataneh Implementation of GPS back-end, web and  
mobile front-end (2018 to 2019)

**Instructor** Bu-Ali Sina University Full-Stack Programming, Summer School,  
Student Scientific Society of Computer  
Engineering (2019)

Iran Technical and Vocational  
Organization RESTful Applications Development,  
KhajeNasir Institute, Hamedan – IR (2016 to  
2018)

**Freelance Developer** Self-employed Implementation of business websites (since  
2012)

# Skills

**Programming Languages** C++, C#.NET, PHP, JavaScript, Python, GoLang (basic), Java, Dart (basic)

**Web Technologies** jQuery, HTML5, Laravel (basic), ASP.NET MVC, ASP.NET Web API

**Desktop Technologies** Qt, Windows Forms Applications, Windows Presentation Forms

**Mobile Technologies** Xamarin, React Native (basic), Java, Kotlin, Flutter (basic)

**Database Systems** SQL Server, MySQL

**NoSQL Database Systems** MongoDB (basic)

**Analyzing and Designing Software Solutions** - Considering all possible options and deriving the best solution based on sound analytical judgment and the client's best interests

- Using system analysis and design methodologies (such as Unified Modelling Language (UML), software framework, and Design Patterns)
- Build data warehouse and required for business intelligence/ executive dashboard
- Proper interface and layering for mobile solution.
- Use Case modelling and analysis (such as Use Case Diagram, Use Case Description, Actor Description, Use Case Package)
- Structural modelling and analysis (such as Object, Class, Domain Class Diagram)
- Dynamic modelling and analysis (such as Sequence Diagram, Collaboration Diagram, State Diagram, Activity Diagram)
- Data modelling tools and techniques (such as Entity Relationship Diagram, Normalization, Data Dictionary)
- Object design and package
- Relational or object database design and data flow diagrams
- Human-computer interface design/user experience
- Security and controls design
- Multi-tier application design

**Enterprise Software Development** - Accurate and Consistent Version Control (with tools such as Git)

- Using Microsoft TFS project management tool
- Using system development methodologies such as object-oriented design
- Considering normal and abnormal scenarios, and exception handling
- Following standards: Style Guide, Code Convention, Human Interface Design (UI), Managing Directories and Files
- Code Refactoring and Analysis
- Evaluate and integrate appropriate libraries and frameworks into a software solution

**Version Control** Git, Microsoft TFS,

**Server Administration** Linux, Windows Server

# Soft Skills

- Work Organization and Management**
- Principles of productive team work
  - Design a proper flow of the system that is designed and provide proper notification when needed
  - Applying company standards into system
  - Planing each day's production schedule according to available time and take into account time limitations and deadlines
  - Applying research techniques and skills to keep up-to-date with the latest industry guidelines
  - Reviewing own performance against the expectations and needs of the client and organization
  - Preparing a good system documentation on how to use, install and run the system

- Communication and Interpersonal Skills**
- Confirm that the created application meets the original specifications and obtain user sign-off for completed system
  - Collaborate with others to develop the required outcomes
  - Work well in group problem solving
  - Prioritizing and scheduling tasks
  - Allocate resources to tasks

- Problem solving, Knowing and understanding: innovation, and creativity**
- The common types of problem and requirements which may occur within software development
  - Diagnostic approaches and suitable system or software to problem solving
  - Trends and developments in the industry including new platforms, languages, conventions, and technical skills
  - The use of latest technology to be applied in software scenario which requires the ability to demonstrate and provide an over-arching business solution to a problem
  - How to set-up, develop, and integrate into designed solution the latest technology and hardware that will drive a better business solution.
- Able to:**
- Research encountered problems independently
  - Identify and resolve problems in a timely manner
  - Gather and analyse information skilfully
  - Develop alternatives using the latest technology to support better business solution.

## Honors and Awards

**WorldSkills** Ranked as 20<sup>th</sup> (2017)  
Skill: IT – Software Solutions for Business

**IranSkills** Ranked as 1<sup>st</sup> and awarded as gold medal (2016)  
Skill: IT – Software Solutions for Business  
Ministry of Cooperatives, Labour, and Social Welfare

**Khwarizmi Youth Award** Awarded as 3<sup>rd</sup> in country (2015)  
Field: Computer Science and Engineering  
IRI Ministry of Science, Research and Technology; IRI Ministry of Education;  
Iranian Research Organization for Science and Technology

**Music Awards** - 2<sup>nd</sup>, Fajr Festival, with Ayeen Ensemble, Hamedan (2017)  
- 1<sup>st</sup>, Niayesh Festival, with Ayeen Ensemble, Qazvin (2017)

## Speech and Conferences

**Kazan, Russia** IranSkills representative expert (2018)

**Alborz, Iran** Province representative in first congress of national skills competitors with minister assistant (2016)

**Hamedan, Iran** Special speaker as top researcher in session with education system chairmen and teachers (2015)

## Languages

**Persian** Native proficiency

**English** Full professional proficiency

## Hobbies

**Music** - Kanun soloist at “Ayeen Ensemble” (since 2017)  
- Kanun soloist at “Alvand Orchestra” (2014 to 2015)

**Astronomy** - Certified Night Sky Observer, Ibn-Sala Astronomy Center (since 2019)