Hamed Mohammadi

Khoshi St., Saeedi Hwy.
Tehran, Tehran 1371683776, Iran

✉ Email: hammedmohamadi@gmail.com
📞 Phone: +98 939 172 7951
🏠 Homepage: http://qmak.ir
GitHub: https://github.com/fivil

Education

2014–2019   BSc, Software Engineering, K. N. Toosi University of Technology,
Cumulative GPA: 15.16/20 (US CGPA: 3.064/4)
BSc Project Title: Design and Implementation of a New Cryptocurrency Using
Directed acyclic graph(DAG). **Supervisor:** `Saeed Sedighian Kashi`
Selected Courses: Java (20/20), Circuit Design Using VHDL (20/20), Operation Systems (19.2/20)
Programming Languages Design (19.1/20), Understanding Assembly Language (18.5/20)
Data Structures (17.5/20), Artificial Intelligence & Expert Systems (17.4/20)

Fields of Interests

- Blockchain Technology and Cryptocurrencies
- Programming Languages
- Software Engineering
- High-Performance Computing
- Machine Learning

Awards & Honors

- Ranked in the Top 0.5% among more than 200,000 Participants in Iranian University Entrance Exam.

Academic Projects

Spring 2019   **Face Detection Program**
Simple Face Detection and Emotion, Gender Classifier Software Using Convolutional Neural Network.
Language: Python

Spring 2016   **Fourier Series Visualizer**
Simple Visualizer which Calculates & Depicts Any Given Function Fourier Series.
Languages: C#, XAML Framework: WPF

Spring 2015   **RegEx Parser**
Simple Regular Expression Parser which Parses any Given Regular Expression and Produces Coresponding NFA & DFA.
Language: C++ Framework: SFML

Fall 2015   **Heart Diseases Diagnosis Expert System**
Design and Development of Heart Diseases Diagnosis Expert System using ID3 Algorithm.
Languages: C#, XAML, Prolog Framework: WPF

Fall 2015   **Compiler Lexem**
Simple Compiler lexical analyser which Reads Given Code then Generates & Evaluates Tokens For C++ Language.

Professional Projects

I must Take Full account for the Entitlement of all Projects Below, For I Single-handedly Managed, Developed and Programmed Them.

September 2018	**EXFA BTM**
	EXFA BTM is a New-Generation CryptoCurrency Teller Machine, First of its kind Made in Iran and Also Fully Iranian, which Facilitates the Process of Buying and Selling CryptoCurrencies such as Bitcoin, Litecoin, Ether and PerfectMoney.
	Languages: C#, XAML, HTML, JavaScript. Frameworks: ASP.NET Core, WPF
Summer 2018	**ViraCoin**
	Ethereum Based Token which Helps Tracking Ownership of Irainian Authentic Carpets and Provides a Digital Market for Purchesing These Extrovagant ArtPieces.
	Languages: C#, JavaScript, Solidity. Frameworks: ASP.NET Core, Ethereum Smart Contracts
Winter–Summer 2017	**Monitoring System of High Voltage Switches**
	Monitoring and Management Software for High Voltage Switches for Bakhtar Regional Electric Co.
	Languages: C#, XAML Framework: WPF

Language

Farsi (Native), English (Professional Proficiency)

TOEFL: 111	**GRE**
Reading:30, Listening:30, Speaking:23, Writing:28.	Expected in November, 2019

Career Achievements

September 2019–present	**Rayex Exchange**, Tehran, Iran.
	Position: CTO , Project Manager, Project Coordinator and Core Developer.
	Rayex Exchange is a Uniqueu Trading Market for Different Cryptocurrencies, Which Facilitates Leverage Trading.
	Duty/Duties: Monitoring Project Progress, Assigning Tasks to Other Project Members-
	Designing System Architecture, Developing Back-End Services.
	Languages: C#, TypeScript. Frameworks: ASP.NET Core, Angular8. Architecture: Microservice
Summer 2017	**Hipotrip**, Tehran, Iran.
	Position: Intern
	Hipotrip is a Travel Agency which Facilitates the Process of Managing an Affordable Trip.
	Duty/Duties: Development of Web Scrapers and Telegram Bots.
	Languages: Python, Java

Technical Skills

Programming Languages	C#, F#, Java, Golang, Rust, Python, C++, JavaScript, Solidity.
Design/Markup languages	LaTex, HTML5, CSS3, XAML, Markdown.
Consepts & Paradigms	Microservices, Object Oriented Programming, OOP Design Patterns, Functional Programming-Concurrency and Parallelism, Asynchronous programming, Version Control Systems (Git)-Inversion of Control & Dependency Injection, TCP/IP Socket Programming, SOLID Principles-REST and SOAP Web Services, Event-Driven Programming, Test Driven Development-Continuous Integration & Continuous Delivery, Remote Procedure Call, MVC Pattern .
Tools	Visual Studio, Docker, Docker Compose.
Frameworks	Anular2+, Blazor, ASP.NET Core, WPF.
Databases	Microsoft SQL Server, MongoDB, Redis, RavenDB, Elasticsearch.
Libraries	ReactJS, SignalR, Ef Core, Serilog, XUnit, MOQ, SciPy, NumPy.

Teaching Experience

Spring 2018	Teaching assistant, **Compilers**, KNTU, Instructor: Seyed Hossein Khasteh
Spring 2017	Teaching assistant, **Data Structure**, KNTU, Instructor: Saeed Farzi
Fall 2017	Teaching assistant, **Understanding Databases**, KNTU, Instructor: Saeed Farzi
Spring 2016 -Fall2017	Teaching assistant, **Understanding Assembly Language**, KNTU, Instructor: Hoda Roodaki
Fall 2015	Teaching assistant, **Programming with C**, KNTU, Instructor: Hoda Roodaki

Professional Memberships

- DotNet Foundation (Augest, 2019-present).

- Association for Computing Machinery (2017-present).

References

- **Saeed Farzi**

  Assistant Professor
  K. N. Toosi University of Technology
  Tehran, Iran
  E-mail: saeedfarzi@kntu.ac.ir

- **Seyed Hossein Khasteh**

  Assistant Professor
  K. N. Toosi University of Technology
  Tehran, Iran
  E-mail: khasteh@kntu.ac.ir

- **Hoda Roodaki**

  Assistant Professor
  K. N. Toosi University of Technology
  Tehran, Iran
  E-mail: hroodaki@kntu.ac.ir