

Mehran Mazhar

Senior Full-Stack .NET Developer & Blockchain Engineer

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SUMMARY

Senior full-stack developer with 10+ years delivering enterprise portals, B2B travel and reservation platforms, workflow-automation systems, and IoT solutions on the .NET stack (C#, ASP.NET Core, SQL Server). Creator of Clutch Protocol, an open-source blockchain-based ride-sharing network written in Rust, developed from master's thesis research.

EXPERIENCE

Senior Full-Stack Developer (.NET) — Parto CRS / Fly Today Dec 2018 — Present

- Design and develop B2B flight and hotel reservation systems with C#, ASP.NET Core, and SQL Server.
- Build and maintain REST / Web API services integrating GDS and third-party supplier feeds.
- Develop internal tools and dashboards for booking and fare management.

.NET & IoT Developer — Wenda IoT Communication Technology Apr 2018 — Oct 2018

- Developed an IoT device management and monitoring portal on Microsoft Azure IoT Hub.
- Built a dual-channel touch switch with cloud connectivity and network cameras with face detection.
- Programmed embedded hardware in Python and Arduino; authored content for iot-lab.ir.

Full-Stack Web Developer — Sepna & Tehran Municipality ICT Organization Oct 2014 — Feb 2018

- Co-developed an ITIL-based ITSM platform for Tehran Municipality ICT, including a custom workflow engine for business-process automation.
- Built enterprise portals and custom modules on DotNetNuke.
- Developed ASP.NET (Web Forms, MVC, Core) applications and WCF / ASMX web services.
- Designed SQL Server databases with stored procedures, functions, and reporting.

Founder & Lead Blockchain Engineer — Clutch Protocol (open-source side project) 2024 — Present

- Implemented a blockchain core in Rust with Aura consensus for high throughput and low latency.
- Built the API layer, a TypeScript SDK, and a React demo application.
- Implemented client-side transaction signing with `secp256k1 / ed25519`.

SKILLS

.NET Stack: C#, ASP.NET Core, ASP.NET MVC / Web Forms, REST APIs, Microsoft Azure

Data & Messaging: SQL Server, MongoDB, Redis, RabbitMQ

Blockchain: Rust, Smart Contracts, Cryptography (`secp256k1 / ed25519`), `libp2p`, P2P networking

Other: DotNetNuke, Docker, Git, Python, Arduino, ITIL / ITSM

EDUCATION

M.Sc., Computer Software Engineering — Islamic Azad University, 2023

Thesis: a blockchain-based network to reduce travel cost in ride-sharing services.

B.Sc., Computer Software Engineering — Islamic Azad University, Islamshahr Branch, 2018

A.Sc., Computer Software Engineering — Shahid Babaei College, Qazvin, 2015