

MORTEZA ASGHARI

Founder, TrustCapture · Backend & Distributed Systems Engineer

morteza.asghari@live.com · linkedin.com/in/morteza-asghari · github.com/mortezasghari · Berlin, Germany

Profile

Second-time founder and senior backend engineer with 10+ years building scalable, secure .NET systems across FinTech, iGaming, and e-commerce. Previously co-founded a cryptocurrency payment gateway, owning key management and transaction integrity across multiple blockchain integrations — the same class of security-critical problem TrustCapture applies to visual media. Track record of owning architecture end to end: from a monolith-to-microservices migration that cut API latency ~90% at 500K+ users, to hardware-backed cryptographic signing verified live on iOS hardware. Comfortable bridging engineering and business under real constraints.

Current — TrustCapture

Founder — TrustCapture

2026 – present · Berlin, Germany · *trustcapture.app* · cryptographic photo/video provenance infrastructure

- Designed and built a media provenance system end to end, largely solo: photos and video are hash-bound and signed with hardware-backed keys at the moment of capture, registered in an append-only registry, and verifiable by anyone via a QR layer that survives re-sharing.
- iOS client in Swift: live-capture-only flow, Secure Enclave key generation, ECDSA (ES256) signing, App Attest device attestation, full manifest collection (GPS, EXIF, device metadata, LiDAR depth where available).
- Backend in C#: Native AOT gRPC service, deployed to production, validating signatures and App Attest assertions against an append-only PostgreSQL registry; TLS with certificate pinning.
- The cryptographic core — capture, sign, register, verify — is working end to end on real hardware against the deployed production backend.

Experience

Senior Software Engineer — Oetker Digital GmbH

Jun 2022 – Dec 2025 · Berlin, Germany · role ended with the wind-down of Oetker Digital's operations (Jan 2026)

- Owned backend architecture for the Getränke Hoffmann loyalty program in a 3-person team, shipping two production microservices in ASP.NET Core — one serving the mobile loyalty app, one powering cashdesk invoice calculation with full coupon and discount logic.
- Advocated for and won a dedicated cashdesk microservice over the originally planned direct DB access via stored procedures — an architectural decision that materially improved maintainability, testability, and separation of concerns.
- Designed 15+ coupon and discount types, translating ambiguous marketing and finance requirements into reliable APIs; primary technical-business bridge for the team.
- Built event-driven integration with RabbitMQ for resilient communication with upstream systems and real-time delivery to mobile clients; DDD and clean architecture with EF Core and PostgreSQL.

Software Developer (.NET) — Digitain

Mar 2021 – Oct 2021 · Yerevan, Armenia · sports-betting / iGaming platform

- Implemented betting-operations business logic in SQL Server stored procedures and functions for a high-volume wagering platform, handling the transactional correctness that settlement and odds calculation demand.
- Migrated legacy ASP.NET (.NET Framework 4.5) modules to ASP.NET Core on .NET 5; built a WPF admin panel that became the reference implementation for next-generation game-manager tooling across all sports.

Team Lead / Senior .NET Developer — Livebook

Nov 2019 – Mar 2021 · Tehran, Iran · large-scale educational platform

- Led a 7-person team launching a platform that scaled from ~35,000 to 500,000+ active users.
- Architected and led a monolith-to-microservices migration using the Strangler Fig pattern, personally building the first proof-of-concept services to de-risk the transition.
- Cut average API response time ~90% and brought error rates from 5–10% to negligible, sustaining peak loads of 300–400 requests/second.
- Introduced Agile, GitFlow, and task-management tooling; served as the bridge between non-technical stakeholders and engineering.

Senior Software Developer & Co-Founder — Becopay

Apr 2017 – Oct 2019 · Tehran, Iran · cryptocurrency payment gateway (FinTech)

- Co-founded a crypto payment gateway integrating blockchain with traditional financial infrastructure in a 5-person team — owned key management and transaction integrity, and built the integration layer connecting to multiple blockchain networks, in ASP.NET Core.
- Operated under heavy regulatory uncertainty; the company wound down in 2019 after regulatory action made the business model non-viable, with the next funding round actively under negotiation at the time.

.NET Developer — Hyper Blue Cube

Oct 2014 – Apr 2017 · Tehran, Iran · Building Management Systems (BMS) / IoT startup

- Built backend and desktop applications for high-end IoT access-control solutions using ASP.NET Web API, SQL Server, and WPF; contributed to IoT design and hardware-integration work across C# (.NET), Java, and C++.

Selected open-source work

Go Multiplayer Poker Backend · open source

- Production-shaped No-Limit Hold'em server in Go: gRPC API, actor-per-session concurrency (one goroutine per game), PostgreSQL with an append-only event log and optimistic concurrency.

StepsCasino · open source · active

- Event-sourced fitness-gamification platform used as a research sandbox for advanced patterns: ASP.NET Core, EventStoreDB, Akka.NET clustering, SignalR, .NET MAUI — Event Sourcing, Actor Model, Passkey auth, real-time at scale.

Technical skills

Core: C# · ASP.NET Core · .NET · EF Core · Akka.NET · SignalR · gRPC · Blazor · WPF · Swift (iOS)

Also worked with: Go · Java

Data & messaging: PostgreSQL (PL/pgSQL) · SQL Server (T-SQL) · Redis · RabbitMQ · EventStoreDB

Architecture: Domain-Driven Design · Microservices · Event Sourcing · Clean Architecture · Hardware-backed cryptography (Secure Enclave, App Attest) · REST APIs

DevOps: Docker · Git / GitFlow · Azure DevOps · CI/CD · Native AOT deployment

Education

M.Sc. Computer Architecture, University of Tehran — 2014

B.Sc. Computer Engineering, University of Mazandaran — 2011

Additional

Languages: English (fluent) · Persian (native) · Professional development: Akka.NET official training (Petabridge) · WeAreDevelopers World Congress