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Summary

Senior Backend Developer / Backend Architect with 12+ years building .NET, Node.js/TypeScript, and cloud-native systems for banking, healthcare, insurance, sustainability, fleet operations, internal developer tools, hardware-integrated apps, and algorithmic-trading research. Strong in Clean Architecture, CQRS/MediatR, EF Core, SQL Server/PostgreSQL, Azure, Docker, Kubernetes/OpenShift, resilient REST/SOAP integrations, security/audit pipelines, and AI-enabled workflows with OpenAI and JSON Schema.

Core Skills

- **Languages & Backend:** C#, .NET 10/9/8/7/4.x, ASP.NET Core/Web API/MVC, ABP/ASP.NET Zero, Node.js, TypeScript, NestJS, Fastify, Moleculer, Express, MQL5.
- **Architecture & Patterns:** Clean Architecture, DDD, CQRS, MediatR, microservices, modular monoliths, REST/GraphQL APIs, domain events, repository/UoW, Hangfire/background jobs, SSE/Webhooks.
- **Data & Persistence:** SQL Server, PostgreSQL, MySQL, MongoDB/NoSQL, Redis, Elasticsearch, SQLite, EF Core/EF6, Dapper, TypeORM, JSON Schema.
- **Cloud & DevOps:** Azure App Service/SQL/Blob/Key Vault, Docker, Kubernetes, OpenShift, Helm, Rancher, Harbor, Nginx, Linux (Ubuntu), Windows Server, GitHub Actions, GitLab CI.
- **Security & Integrations:** Identity/JWT/OAuth/OIDC, Clerk, OTP/2FA, reCAPTCHA, OpenAI, SAP/ERP, banking/health/benefit APIs, REST/SOAP/HTTP, SMTP/email, SMS, S3/MinIO, FTP/SFTP, Modbus TCP.
- **AI-assisted development:** ChatGPT, OpenAI Codex, GitHub Copilot.
- **Frontend, Quality & Tooling:** Next.js, React, Angular, Tailwind CSS, HeroUI, Kendo UI, Swagger/OpenAPI, Postman, AutoMapper, FluentValidation, Refit/Polly, Serilog/NLog, NUnit, Testcontainers, Jest/Supertest, Vitest.

Experience

Arneca Technologies - *Senior Backend Developer / Backend Architect* (Jun 2022 - Present; Client Projects)

Delivering client projects across sustainability, banking/benefits, fleet operations, fintech, merchant operations, healthcare, insurance, legacy modernization, and internal developer tooling while working with Arneca Technologies.

IsBank Isim Emekli / Isim Kolay - *Senior Backend & Integration Developer* (Node.js, Moleculer, MongoDB, OpenShift)

- Stabilized and mapped a multi-repo retiree health/benefits/content platform with member API + CMSAPI (Node.js, Fastify, Moleculer), React/Vite CMS, Nginx proxy routing, shared MongoDB, and S3-compatible object storage.
- Implemented and validated banking/identity, health/benefit, entitlement, notification, content, upload, and CMS flows; documented REST contracts, route/proxy behavior, auth/session handling, and request/response normalization for UAT readiness.
- Supported Kubernetes/OpenShift UAT and Rancher/Harbor PreUAT operations, including ConfigMaps, namespaces, Deployments, image tagging/pushes, pod restarts, Postman smoke tests, and controlled mock flags for external-service isolation.

Decarbonia - Backend Architect (Clean Architecture, .NET 9)

- Architected a multi-tenant Clean Architecture backend (.NET 9) with CQRS/MediatR pipelines and EF Core interceptors for auditing, history tracking, soft delete, and domain-event dispatch.
- Designed a strategy-based corporate action engine (mergers/divestitures/JVs/hierarchy changes) to keep complex business variations additive and testable.
- Delivered metadata-driven APIs (dynamic grids, schema/enum discovery, consistent envelopes) plus integrations (Azure SQL/Blob, OpenAI, SendGrid/Twilio, Google geocoding) and CI/CD to Azure App Service.

Onsa Rafineri A.S. - Senior .NET Developer (.NET Framework 4.7.2 / .NET 6)

- Delivered OTP-gated JWT Web API/MVC stack for jeweler tablets, back-office ops, and bank settlements across legacy .NET Framework and .NET 6 services; EF6 DB-first over shared SQL Server.
- Integrated multiple banks and services via REST/SOAP, SMS OTP, KPS identity checks, and file uploads, persisting request/response traffic for auditability.
- Built Windows services for bank token refresh and Exchange email dispatch; standardized JWT validation via DelegatingHandler, reusable HTTP/SOAP helpers, and Excel/reporting workflows.

VeriSoft - Senior .NET Developer

- Built kiosk-grade WinForms client (CefSharp) that bridged portal JavaScript to peripherals (camera/scanner/printer), with ffmpeg transcoding and resumable FTP uploads + integrity checks.
- Delivered ASP.NET MVC 5 backoffice with Castle Windsor DI, Kendo UI, FluentValidation, and EF6 repository/UoW patterns for merchant onboarding and operations.
- Hardened deployments with offline advert caching + sync, self-update/restart, disk-space/single-instance guards, TLS enforcement, and NWebsec security headers.

Memorial Healthcare Group - Senior .NET Developer

- Led integration-heavy backend surfaces across public web/mobile platforms, orchestrating CMS content, hospital appointment/e-result APIs, CRM, payments (Payfull), Assistbox video visits, and Elasticsearch-backed search.
- Built .NET 7 CQRS/MediatR APIs for memorial.ro with JWT, rate limiting, Hangfire indexing jobs, FluentValidation + reCAPTCHA, and PII-safe logging (hashing/sanitization).
- Architected ASP.NET Core 3.1 hospital middleware unifying Bilmed/Pusula/SAP/IYS/MobilDev with tenant-aware gateways, cached ID mappings, OTP login, consent versioning, and full outbound call logging for forensics.
- Delivered patient-facing appointment/e-result facade (ASP.NET Core 2.1) with encrypted cookies, strict input hygiene, throttling, and hardened middleware (HSTS, cookie shields, suspicious-path blocking).

KrbFly / TireTracking - Backend Architect (.NET 9, PostgreSQL, SAP)

- Architected a multi-tenant fleet tire-lifecycle backend handling customers, vehicles, tires, warehouses, operations, measurements, and SAP-synced master data through a secured ASP.NET Core 9 REST API.
- Implemented CQRS/MediatR feature slices, EF Core/PostgreSQL repositories, two-step JWT customer context, DB-driven permissions, audit/soft delete, Hangfire SAP sync jobs, Excel exports, local/Azure storage abstraction, Serilog/Seq logging, and Dockerized delivery.

Arneca Timesheet Modernization - Full Stack Modernization Developer (Next.js, NestJS, PostgreSQL)

- Modernized a legacy ASP.NET Web Forms timesheet/leave-management system into a Next.js, NestJS, TypeScript, TypeORM, and PostgreSQL platform while preserving core HR/Admin workflows and legacy behavior.

- Delivered backend APIs, role-aware frontend workspaces, JWT auth/guards, migration dry-run/execute/reconcile tooling, XLSX report exports, SMTP reminder/broadcast flows, audit/error logs, Docker Compose runtime, and validation coverage with Jest/Supertest and Vitest.

Arneca MockHub - *Full Stack Developer* (Next.js, Express, MongoDB)

- Built an internal banking/integration mock platform with TypeScript workspaces, Next.js UI, Express API, MongoDB persistence, auth/session cookies, project/service/endpoint CRUD, JSON/XML mock responses, generated runtime URLs, request logging, sensitive-field masking, and Docker Compose.

Cleverpace - *Backend Lead* (Insurance platform, ABP/ASP.NET Zero, .NET 6)

- Led backend on ABP/ASP.NET Zero (.NET 6, PostgreSQL) using modular layering, multi-tenancy, auditing, and edition/feature gating; exposed SignalR/GraphQL surfaces where needed.
- Built resilient integrations to insurer calculators (EFM/FB), payments (Stripe/PayPal), storage (S3/Azure), and messaging (Twilio) with Refit + Polly clients and scheduled background sync workers.
- Hardened auth and operability with JWT + refresh, 2FA/captcha, impersonation/delegation, Serilog -> Loki, health checks, migrations CLI, and Docker/k8s deployments via GitLab CI.

Amplicate - *Senior .NET Developer*

- Shipped maintainable C#/.NET changes end-to-end (design -> implementation -> debugging -> release support) with a focus on clean, testable code, unit testing, and collaborative remote delivery.

CleanArchitecture.Extensions - *Personal Project* (Creator & Maintainer; NuGet ecosystem, .NET 10)

Early-stage open-source NuGet ecosystem extending Jason Taylor's Clean Architecture template without forking it; actively developing enterprise-grade primitives and cross-cutting behaviors.

- Built plug-and-play MediatR behaviors for correlation/trace propagation, structured logging + performance thresholds, FluentValidation strategies, and catalog-driven exception mapping with redaction/PII-safe errors.
- Implemented read-side caching primitives: deterministic cache keys with namespace/tenant scoping, in-memory + IDistributedCache adapters, cache-aside GetOrAdd, and stampede protection with jittered expirations.
- Authored core primitives (Result/Result<T>, guard clauses, IClock, EF Core domain-event dispatch interceptor) and shipped packages with docs/samples, SourceLink/symbols, CodeQL, and automated CI/CD publishing.

FiberFits - *Personal Project* (Backend & Frontend Lead; OpenAI nutrition, Next.js 15 + .NET 9)

Nutrition/fitness platform where members log meals (text/photo) and get AI nutrition analysis plus maintenance-energy planning and insights.

- Led Clean Architecture API delivery (.NET 9) with Clerk JWT auth, EF Core (SQL Server), config-as-data, and an async OpenAI nutrition pipeline (channel queue + worker + JSON Schema outputs) with SSE streaming.
- Built Next.js 15 app-router UI with HeroUI/Tailwind, next-intl locale/timezone resolution, Clerk middleware, typed API clients, and SSE hooks for real-time analysis updates.
- Modeled meal lifecycle, energy planning, and nutrition goals with unit normalization, rowversion concurrency, safe reprocessing, image compression, optimistic updates, Docker/Nginx deployment, and CI for lint/type-check/build.

MOHY MT5 Trading Algorithm - *Personal Project* (MQL5, MetaTrader 5)

Deterministic multi-timeframe continuation trading-system workspace for MT5, focused on kernel-owned strategy facts, EA runtime state, visualization, scanning, and verification discipline.

- Built MQL5 price-action kernel contracts/builders for candles, pivots, elements, legs, Swing3 semantics, impulses/corrections, continuation signals, trade setup plans, and historical replay.

- Implemented EA runtime flows for virtual triggers, pending orders, risk/exposure gates, break-even, trailing, partial exits, lifecycle persistence, read-only visualizer/scanner tooling, JSON/CSV artifacts, compile gates, and determinism checks.

MOHY Platform - *Personal Project* (.NET 10 Trading Research Platform)

Contract-first C# platform translating the MT5 strategy into a .NET engine, replay/backtesting stack, research factory, schemas, adapters, and analytics groundwork.

- Designed a hexagonal .NET 10 architecture with shared contracts, engine-core services, adapter SDK boundaries, market-data ingestion, research-factory services, JSON Schema governance, curated samples, and ADR documentation.
- Built deterministic replay/certification, setup planning, risk gates, execution simulation, order/lifecycle/ledger semantics, Dukascopy ingestion, backtest/campaign workflows, analytics validation, and xUnit coverage across runtime/research slices.

MAT biomedical - *Senior .NET Developer* (Contract; Jan 2021 - May 2022)

Browser HMI for a hydrotherapy treadmill (Aquamill), bridging AJAX calls to Modbus TCP PLC control.

- Built ASP.NET Web Forms HMI for treadmill programs, pumps, heater, lighting, 100 ms Modbus polling, press-and-hold safety UX, XML-persisted presets/ratios, and bundled EasyModbus diagnostics.
- Delivered minimal-dependency on-prem deployment while documenting trusted-network assumptions and security trade-offs.

Negin Nassaj Asia (Senatex) - *Full Stack Developer* (Full-time; Apr 2015 - Oct 2020)

Textile spare parts catalog portal and internal tooling (legacy ASP.NET Web Forms + WinForms, SQL Server).

- Delivered and maintained a searchable spare-parts catalog (Web Forms + SQL Server) with part detail pages, admin CRUD, validation, image/document handling, reporting, and exports.
- Built WinForms utilities for catalog operations and owned IIS/VPS publishing, DNS, backups, Windows Server maintenance, and office IT/network support.

Atra Dade Pardaz - *.NET Developer* (Full-time; Jul 2013 - Apr 2015)

Windows Service that automated server-side handling and publishing of image/video files for web properties.

- Built a .NET Framework 4.5 Windows Service for image/video ingestion, validation, transforms, retries, deployment, and publishing workflows.
- Persisted job/status tracking with SQL Server + T-SQL and supported ASP.NET, WordPress/static sites, Windows Server, and IIS operations.

Education & Certifications

- **RU102N:** Redis for .NET Developers - Redis University (2023)
- Certificate in Information Systems Management - Aptech Worldwide, Tabriz, Iran (Oct 2008; Distinction)
- Professional Certificate in Visual Basic Programming - Iran (2006)
- Vocational Diploma of Computer Science - Tabriz, Iran (2006)