MORAD ELBARMIL

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U.S. CITIZEN — AUTHORIZED TO WORK WITHOUT SPONSORSHIP

SENIOR FULL-STACK SOFTWARE ENGINEER — VUE / TYPESCRIPT, .NET APIs & DATA PIPELINES

TypeScript | Vue 3 / Nuxt 4 | C# / .NET 10 Web API | Relational schema design | ETL at 100M+ rows | AI-assisted development

SUMMARY

Full-stack engineer with 6+ years shipping production software. Most recently sole engineer on a ground-up replatform of a wealth-management portal: a 51-page Vue 3 / Nuxt 4 front end, a strongly typed .NET 10 API (126 REST endpoints), a 60-table relational schema, and nightly pipelines loading external data into tables of up to 96M rows. Works AI-native daily with AI coding agents; debugs from the browser down to SQL query plans; leads and mentors 5+ developers.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C#, SQL (T-SQL), Python, Node.js, PowerShell
Frontend: Vue 3, Nuxt 4, Pinia, Nitro Backend-for-Frontend, Vite, Tailwind, React, TanStack Table, Chart.js
Backend & APIs: .NET 10, ASP.NET Core Web API, REST / OpenAPI design, Entity Framework Core, Redis, Quartz.NET, Serilog, xUnit
Data: Azure SQL, relational schema design, index design & query tuning, ETL & bulk loading (SqlBulkCopy), data reconciliation, caching
Cloud & DevOps: Azure App Service, Blob Storage, Front Door / WAF, Application Insights, Managed Identity, GitHub Actions CI/CD
Security: OAuth 2.0 / OIDC, Authorization Code + PKCE, Entra ID / External ID, RBAC & data scoping, CSRF / CSP / XSS, SOC 2 readiness
AI-Assisted Development: AI coding agents, spec-driven workflow, prompt engineering, reviewing and testing generated code

PROFESSIONAL EXPERIENCE

24kConnect — **Founder & Lead Software Engineer** | *McLean, VA | 08/2020 – Present*

Client Portal Replatform — SEC-registered investment advisor (Shariah-compliant RIA) | *2026*

- **Sole engineer on a ground-up replatform** of a production wealth-management portal — legacy Java/Tomcat + ASP.NET Razor to a .NET 10 Web API (126 REST endpoints) and a Nuxt 4 / Vue 3 SPA with a Backend-for-Frontend (51 pages), shipped to Azure via GitHub Actions CI/CD.
- **Built it AI-native** — used AI coding agents daily to turn written specs into changes across the Vue front end, .NET API and SQL schema, reviewing and testing the output before release.
- **Designed the 60-table relational schema** in EF Core on Azure SQL, with role-based data scoping and PII masking for client financial data.
- **Built and operated the nightly ETL** that ingests and transforms data from Orion Advisor Services — 15 import sections feeding hot tables of 96M / 21M / 20M rows (~30–60 GB), with self-healing catch-up and age-based stale-section reconciliation.
- **Root-caused nightly import failures** to Azure SQL IO_QUEUE_LIMIT waits from a terminal primary-key build on a 100M+ row table; redesigned the write path as a three-phase staging swap (index-while-empty → batched SqlBulkCopy → atomic sp_rename), eliminating the IO cliff and the 15-minute timeout.
- **Proved missing indexes, not compute, were the cost driver** — profiled Azure SQL spend and query plans to find full scans on 20M+ row tables, and specified a 13-index + PAGE-compression remediation as an alternative to a tier upgrade.
- **Architected the security model end to end** — a Backend-for-Frontend keeping zero OAuth tokens in the browser, OIDC Authorization Code + PKCE with Redis-backed sessions, globally enforced double-submit CSRF, and Entra step-up authentication on privileged actions.

Stack: .NET 10, EF Core, Azure SQL, Redis, Quartz.NET, Nuxt 4 / Vue 3, Entra External ID, Azure App Service, GitHub Actions

Additional client delivery | *2020 – Present*

- **Delivered client and administrative portals** on .NET and Azure for 4000+ business clients — customer identity on Entra ID / Azure AD B2C with white-labeled login domains and RBAC — while leading and mentoring a team of 5+ developers.
- **Prepared client systems for SOC 2 Type II review**, documenting system scope, data-access boundaries and technical controls.

JForce Games — **Software Engineer / Team Lead** | *Remote | 02/2019 – 06/2025 (concurrent, part-time from 2020)*

- **Shipped and maintained Murder Miners**, a commercial real-time 3D multiplayer title, across Windows, macOS, Linux, Xbox 360 and Xbox One, including full Microsoft console certification and Steamworks integration.
- **Led feature development and release management** for a live product with an active player base, owning the bug triage-to-release pipeline.

North Eastern Security Force — **IT Security & Risk Analyst** | *Sterling, VA | 08/2018 – 06/2022 (part-time)*

Hardened and standardized endpoint configurations across the organization's workstation fleet; administered server backup and recovery operations.

EDUCATION & CERTIFICATIONS

Western Governors University — B.S., Computer Science | *In progress | Expected May 2027*
Northern Virginia Community College — A.S., Computer Science | *2021 • George Mason University — CS coursework, 2021–2024*
Certifications: Azure Database Administrator Associate • AWS Certified Cloud Practitioner • Microsoft SC-300 Identity Admin *(in progress)*