CONTACT

Dubai, available for work in London
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SKILLS

Languages and frameworks
C#
.NET 10 and earlier
ASP.NET Core
Blazor (server and WebAssembly)
.NET MAUI
Entity Framework Core
Vue
Angular
TypeScript
JavaScript
WPF and XAML

AI engineering
Claude Code
Multi-agent coordination
Agent governance
Testing AI-written code
Local LLMs with Ollama

Data and infrastructure
SQL Server
Azure
Stripe
Google Play Billing
Hangfire
Cloudflare
Git

Architecture
CQRS
Domain-driven design
Event-driven workflow
Microservices
MediatR

Leadership and practice
Hiring
Mentoring
Team recovery
Stakeholder work up to C-level
Test-driven development
XP
Pair and mob programming
Rapid prototyping

Aythan Esmaeel

Also known as Nathan Murados

Fractional CTO / Consultant Software Engineer

PROFILE

I'm a software architect and fractional CTO with eighteen years of building commercial software, most of it as a senior developer, lead or architect. My work runs from architecture through to live operations. I spent three years as architect and principal engineer on XPS Aurora, an award-winning pensions platform, and I've managed teams of up to eleven and worked directly with actuaries, government ministerial representatives and C-level executives.

Since 2026 I've been the architect and technical lead in the team behind PT Max (ptmax.app), a .NET 10 and Blazor platform for personal trainers that is delivered through Nhance Group and is live on Google Play. I directed a team of Claude Code agents in parallel to build it, and 81% of its 6,394 commits were written with Claude. I designed the rules and tests that govern the agents' work.

I work through my own company, Nhance Group Ltd, and I'm looking for outside-IR35 contracts as a fractional CTO, head of engineering or senior developer.

EXPERIENCE

Technical Lead and Architect, PT Max (Nhance Group Ltd)

Feb 2026 – present · Dubai

PT Max runs a personal trainer's business: clients, bookings, packages, payments, attendance and check-ins. It was built with a team of AI coding agents and has been live on Google Play since August 2026, with real coaches, clients and card payments.

- Designed and built the product on .NET 10: a Blazor web app (server and WebAssembly) and a .NET MAUI Android app sharing one codebase, with Stripe card payments, Google Play billing and notifications by email, push and in-app.
- Directed ten or more Claude Code agents at a time, each with a defined job on its own branch, and coordinated thirteen in a single day.
- Designed the rules the agents work under. One agent coordinates shared resources, and no agent may deploy, move money, message real people, delete data or handle secrets without human approval.
- Set up the checks on AI-written code: 9,456 automated .NET tests and 1,381 browser tests. The full browser suite runs before every release and scales to use every core of a modern computer, with successful runs on up to 32 in parallel. Agents may change a test, but they must list each change and why.
- Built the tools for working with the agents: a live operations dashboard, decision pages answered by clicking, and a voice channel for time away from the screen.
- Cut the app's WebAssembly download from 9.3 MB to 4.5 MB by moving server-only code out of shared libraries.

EDUCATION

MSc Information Systems Management, Merit, Brunel University, 2007. Darpreet Benning Award for best dissertation.

BSc (Hons) Computer Science, upper second, Brunel University, 2005.

TALKS

Leading Through Uncertainty, and Rethinking the Daily Stand-up, Devoxx UK, May 2019

Decision-Making When You Don't Know, Devoxx Belgium, Nov 2018

Software Consultant (contract), XPS Group

Apr 2022 – Apr 2025 · London, Dubai and remote

I was architect and principal engineer on XPS Aurora, an award-winning pensions administration platform that now serves more than 1.3 million members across about 600 schemes, including the SEI Master Trust, the Capgemini UK Pension Plan, and the police pension schemes of the Metropolitan Police, Kent, Surrey and Sussex.

- Designed and delivered most of its front end and workflow architecture: portals, approvals, audits, work queues and the event-driven CQRS engine for joiners, leavers, retirements, transfers, divorces, deaths and trivial commutation.
- Played a foundational part in building a sandboxed C# environment where actuaries write scheme rules within strict limits, with versioning, branching, diffs, validation and multi-party approval before anything reaches production.
- Architected payroll ingestion and the mapping between employer files and the core model, with GDPR-safe access controls, plus bulk onboarding and legacy data migration for large scheme transitions.
- Built document generation for statements, benefit quotes and statutory letters, and tuned queues, caching, batching and parallelism for actuarial calculations.
- Recruited and built the in-house permanent technical team.
- Helped double the share price of XPS Group, a FTSE 250 company.

Technical Consultant (contract), Trustmark

Aug 2020 – Dec 2021 · London and remote

Trustmark was the sole BEIS-approved agent for the £1.5 billion Green Homes Grant, and I worked on its platform.

- Helped design and build the Vue and .NET Core front-end framework that processed voucher applications and installer workflows.
- Delivered updates and new components on the live system, which handled about 78,000 vouchers and 47,500 installations.
- Worked directly with C-level executives and government ministerial representatives throughout.

Founder, Nhance Group Ltd

Oct 2019 – present · UK, Europe, GCC and remote

Nhance is my own technology consultancy, and my business runs through it.

- Delivered bespoke .NET and Blazor work, including custom content management systems, developer productivity tools and fast browser-based visualisation.
- Built tools for teams practising XP, pair and mob programming, and for mapping where development effort pays back best.
- Advised client teams on architecture, XP, rapid development and Blazor adoption.

Technical Consultant (contract), Oliver Wyman

May 2019 – Oct 2019 · Remote

I was asked in to help recover a high-value Vue and Node.js programme for some of the world's biggest retailers, run by teams in Singapore, Australia and the US. Much of the job was working with senior stakeholders until they trusted the team again.

SIDE WORK

Oosterweel Link schematic renderer: a Blazor and Azure Maps renderer for the Antwerp tunnel project that draws more than 100,000 infrastructure points in the browser, with rewritten level-of-detail logic and a point-clustering engine.

LANGUAGES

English (native), some Arabic and French.

Lead Developer (contract), Tomra Food

Feb 2018 – Jan 2019 · Leuven, Belgium

I led the front end of the Tomra 5C food-sorting machine, which went on to win a Japan Food Journal award.

- Designed and built the machine's user interface in C#, WPF and ReactiveUI.
- Mentored C++ developers in C#, and brought SOLID, domain-driven design, test-driven development and XP into the team.
- Ran pair and mob programming sessions to fix communication between teams, and helped hire three developers.

EARLIER ROLES, FROM 2008

Technical Consultant, SketchCreate Sep 2017 – Feb 2018

Coached a funded start-up's team in Angular, C# and XP.

Lead Developer, Draw Group, now Oliver Wyman Apr 2017 – Sep 2017

Led five developers building an account management portal for a large German energy supplier.

Senior C# Developer, Landmark Information Group Apr 2016 – Apr 2017

Led a team modernising decades-old systems behind almost the entire UK mortgage market. My .NET microservice design became the blueprint for later upgrades.

Front-end Developer, Oliver Wyman Apr 2016 – May 2016

Helped a team of six recover an overrunning project for National Australia Bank.

Lead Developer, Draw Group Oct 2015 – Mar 2016

A three-week prototype won the full build from a major French bank. I then led a team of six to deliver it and handed it over with a two-day seminar in Paris.

Technical Consultant, Path Creative Jan 2015 – Sep 2015

Main developer of a PhoneGap app for Middlesex University Students' Union.

Software Development Manager, Achilles Group Feb 2014 – Jan 2015

Managed eleven developers recovering an international inventory management system.

Technical Consultant, Studio 10 Beauty Oct 2013 – Feb 2014

Architecture and database design for an e-commerce platform that launched alongside national press, TV and radio campaigns.

C# Developer, Graphnet Health Jan 2013 – Apr 2013

Ported services to the NHS N3 network's Interoperability Toolkit.

App Developer, UI Centric 2012 – 2013

Windows 8 apps for Rightmove, Engadget, The History Channel, Fox News, Epicurious and ComiXology. I led three developers and reported to the CEO.

Founder, Hardcoresoftware Ltd Aug 2012 – present

This is my earlier consultancy, which is still active: hardcoresoftware.co.uk.

Tech Lead, Yousoft Jan 2009 – Sep 2012

Led a team of five on web portals, websites and medical hardware.

Web Developer, Miles 33 Jan 2008 – Jan 2009

Built the proof of concept that started the company's web development department.