

Matt Melton

Tech Lead · Cloud & Quantitative Developer

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SUMMARY

15 years of commercial software engineering across 7 of the top 10 TIOBE languages. Specialising in high-level architecture, performance-sensitive development, and technical leadership in energy trading and financial services. Particular interest in low-level programming, the Linux kernel, and functional languages.

EXPERIENCE

Shell

London, United Kingdom

Trading & Supply

Tech Lead (Permanent)

May 2023 – Present

Cloud DevOps Engineer (Contract)

Apr 2022 – Apr 2023

- Tech Lead on Complex Forward Valuations — extended Endur (ETRM) to value complex storage deals using in-house quantitative models including Monte Carlo simulation and binomial tree pricing.
- Led the zero-downtime migration of high-profile projects, including the Systematic Trading desk, between Azure tenants.
- Subject matter expert for technology queries spanning cloud connectivity, performance engineering, authentication, high availability, and data architecture.
- Authored internal tooling including a bespoke Terraform provider (Go), a Git repository provisioning service (Node.js/Python), and a package manager gateway (NGINX).
- Championed organisation-wide improvements to code quality and dependency vulnerability scanning across Shell Energy.
- Delivered proof-of-concept templates in C#, Python, and Node.js to accelerate DevOps adoption whilst preserving a developer-friendly local development loop.

Meltancy Ltd

London, United Kingdom

Independent Consultancy

Contract Software Engineer & DevOps (Contract)

Jun 2019 – Nov 2022

- Delivered cloud-native architecture and development services to industry leaders in the City of London.
- Practice areas included full-stack development, DevOps, architecture review, agile planning, and technical training.
- Built microservices on Azure and Kubernetes using C# .NET Core, TypeScript, Angular, Azure Functions, and Cosmos DB.

Niixo

London, United Kingdom

Public Sector / Data Governance

Contract Tech Lead & AWS DevOps Engineer (Contract)

Oct 2020 – Apr 2022

- Lead engineer on a prominent data governance platform — a cross-functional programme involving senior industry professionals and civil servants to track, assess, and forecast the COVID-19 pandemic.
- Managed AWS infrastructure with Terraform and Ansible, supporting a geographically distributed team.

Altius @ bp Plc

City of London, United Kingdom

Financial Services / Energy

Contract Software Engineer & Azure DevOps (Contract)

Feb 2020 – Sep 2020

- Augmented full-stack capacity within the treasury department of a global energy provider based in Canary Wharf.
- Delivered a serverless architecture on Azure using .NET Core 3.1, TypeScript, Angular (with Ivy), Azure Functions, Cosmos DB, and OpenID Connect / Azure AD authentication.

Clarksons Platou

Shipping & Maritime

London, United Kingdom

Contract Software Engineer (Contract)

Jul 2019 – Feb 2020

- Full-stack position developing microservices on Kubernetes with C# / .NET Core 3, Angular 8+, and Azure (Cosmos DB, Azure Service Bus).

Deloitte Consulting

Product & Services

London, United Kingdom

Lead Software Developer (Manager) (Permanent)

Nov 2016 – May 2019

- Hired to lead the rewrite and re-platforming of a worldwide flagship pricing solution delivering over £100m of annual benefits to global clients, scaling it into a commercial product with a 15+ person engineering team.
- Migrated a legacy SQL Server platform to near real-time AWS Lambda, Batch/Fargate, PostgreSQL, and Redshift — achieving a 90% reduction in per-tenant infrastructure costs.
- Engineered a serverless map-reduce pipeline replacing an unscalable TSQL implementation, leveraging Redshift/PostgreSQL for aggregation, AWS S3 for storage, and AWS Batch/Lambda for computation.
- Technical role split: 30% agile planning, 30% critical feature development, 30% mentoring, and 10% BAU.

Centaur Media Plc

Media & Publishing

London, United Kingdom

Product Lead & Senior Developer (Permanent)

Sep 2014 – Nov 2016

- Full-stack developer on Centaur's intelligence subscription portfolio using Angular 1.4+, TypeScript, Entity Framework, Apache Solr, Neo4j, and SQL Server.
- Delivered solutions to complex backend architectural challenges including OAuth 2.0 authorisation, distributed caching, and bespoke SPA analytics.
- Guided adoption of new development methodologies, refactored technical debt, and coordinated external development via a global outsourcing partner.

Yecco

Social Technology

London, United Kingdom

Senior Developer (Permanent)

Apr 2014 – Sep 2014

- Developed high-value features, addressed technical debt, and introduced BDD practices across a social network platform built with C# ASP.NET, WebAPI 2, and SQL Server.

Oppolis Software

Creative Technology

West Midlands, United Kingdom

Software Engineer (Permanent)

May 2012 – Apr 2014

- Contributed to GoPublish and GoMobile — with work featuring across more than 20 whitelabel applications on the App Store. Notable clients include Motor Sport, Peugeot, Morrisons, and EE.
- Built a cross-platform C++11 business API targeting Windows, Android, and iOS — including a platform abstraction layer, XML-to-JSON parser, and JNI bindings via SWIG for Java support.
- Developed a multi-tenant message broker (C# Windows Service) with a REST backend and SignalR front-end supporting GCMS, APNS, and ADM push notifications.
- Delivered a .NET MVC backend, a real-time WCF management console, and an animated HTML5/SVG magazine reader front-end.

Games Workshop Plc

Entertainment & Retail

Nottingham, United Kingdom

Developer (Permanent)

Nov 2010 – May 2012

- Led iOS development on the Black Library Reader and White Dwarf Magazine applications, covering the full product lifecycle from prototype to App Store release.
- Built native iOS features including an eBook reader, in-app purchase storefront, OpenGL 3D page curl animation, a threaded download-extract-checksum engine, and an Illustrator-style Bezier path editor.
- Developed macOS tooling including a Bezier path editor exporting to HTML5 Canvas and SVG, and a RESTful structured text editor.

SKILLS

Cloud & DevOps

Azure · AWS · Kubernetes · Docker · Terraform · Ansible · NGINX · Azure DevOps · GitHub Actions · JFrog Artifactory · SonarQube · Mend

Frontend

Next.js · React · Angular · SignalR · NGRX

Architecture

Serverless · Microservices · Domain-Driven Design · Event-Driven Architecture · High Availability

Domain Expertise

Energy Trading (ETRM/Endur) · Quantitative Finance · Monte Carlo Simulation · Binomial Tree Pricing · Data Governance · Financial Services

Languages

C# / .NET Core · Python · TypeScript · JavaScript · C++11 · SQL

Databases

PostgreSQL · Azure Cosmos DB · SQL Server · Amazon Redshift

AI & GenAI

Claude API · LLMs · Prompt Engineering · Agentic Systems · RAG · Claude Code

EDUCATION

BSc Computer Systems (Hons)

University of Liverpool

2003 – 2006

A low-level image processing GUI in C++

MSc Computer Games Systems

Nottingham Trent University

2006 – 2007

Collision detection within the GPU

Graduate Diploma in Law (GDL)

Nottingham Law School

2007 – 2008

The Freedom of Information Act is a failure — Discuss

Legal Practice Course (LPC)

Nottingham Law School

2009 – 2010

Certified ADRgroup Mediator
