

Andrew Fowke

Senior Software Developer · Project Lead

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PROFILE

Senior Software Developer and Project Lead with over 20 years of commercial experience, including 15 years running my own software business. Currently Project Lead on a core revenue-generating platform at Sort Group. Focused on pragmatic delivery, legacy modernisation, and practical AI tooling that supports engineering workflows without replacing engineering judgement.

EXPERIENCE

20+ years

INDEPENDENT

15 years

CURRENT ROLE

Project Lead

EMPLOYER

Sort Group

TEAM

11 developers

STATUS

Actively looking

KEY STRENGTHS

Lead on core platform. Project Lead on a core revenue-generating Sort Group platform supporting conveyancing and mortgage workflows.

Practical AI tooling. Built AI-assisted tooling for PR review, dependency maintenance and document analysis, focused on reducing repetitive engineering work while keeping humans in control.

Legacy modernisation. Experienced in modernising critical systems in place while they continue to support day-to-day business operations.

End-to-end ownership. Comfortable across mobile, frontend, backend, infrastructure, CI/CD and identity workflows, with strong ownership across layers.

TECHNICAL STACK

AI & AUTOMATION

LLM integration, Human-in-the-loop workflows, AI-assisted review, Document analysis, Local automation

FRONTEND

Vue 3 / TypeScript, PrimeVue 4, Tailwind CSS, NextJS, REST APIs, Pinia

DEVOPS & INFRASTRUCTURE

Bitbucket Pipelines, Docker / Linux, AWS (EC2, S3, RDS, CloudFront), Google Cloud, Self-hosted runners, Mac build host, Nginx

MOBILE & CROSS-PLATFORM

Flutter / Dart, iOS (Swift), Android (Kotlin), Match, Fastlane, NFC / eMRTD

BACKEND & DATA

NestJS / TypeORM, Node.js / TypeScript, PostgreSQL, Redis, AWS S3, Swagger / Jest, PHP / Laravel (legacy)

METHODOLOGIES & LEADERSHIP

Technical leadership, Architecture decisions, Sprint delivery, Code review discipline, Multi-tenant SaaS, Legacy modernisation

2022 – PRESENT

Senior Software Developer & Project Lead

Sort Group Limited · Derby

Technology platform delivering mortgage brokerage and conveyancing services to brokers, agents, and law firms across the UK. Promoted to Project Lead within the 11-strong development team.

- Project Lead on a core legacy PHP platform supporting key Sort Group revenue workflows, modernising it in place through identity verification task trees, tenant-aware data isolation, PDF generation services and developer-environment guard systems.
- Designed and integrated biometric and document-based identity verification into the conveyancing portal used by UK solicitors, including mobile eMRTD passport scanning flows based on ICAO 9303 concepts such as BAC/PACE, chip authentication and passive authentication.
- Led architecture and development of a white-label Flutter onboarding application, multi-tenant by design, with a self-hosted CI/CD pipeline using Bitbucket Pipelines on a Mac runner to support release flows for App Store Connect and Google Play.
- Built practical AI-assisted tooling for engineering workflows, including PR review support, dependency patch preparation and document analysis for legal and identity workflows.
- Helped strengthen code review standards, sprint practices and technical documentation habits across the development team.

2007 – 2022

Freelance Software Developer & Technical Consultant

Self-employed · Derby

Built a successful independent practice growing entirely by referral, delivering bespoke software across credit and finance, events management, e-commerce, and hospitality. Sole developer and client-facing technical lead on most engagements.

- Designed and built full-stack web applications in PHP, including Laravel and Symfony, alongside JavaScript, SQL and REST APIs.
- Delivered consultancy engagements that streamlined and automated SME business processes.
- Built booking platforms, e-commerce sites, CRM integrations and reporting dashboards on AWS and Google Cloud.
- Managed every phase end-to-end: requirements, architecture, build, test, deploy, support and client account management.

2004 – 2007

Software Developer

Warwick International Computer Systems · Derby

UK market leader in health and safety and occupational health software, with major clients including NHS Trusts and large public sector organisations.

- Built data-driven enterprise applications in .NET, Visual Basic, JavaScript and PHP against Oracle, Sybase and MS SQL Server.
- Gained foundational expertise in large-scale relational data modelling and regulated healthcare software environments.
- Contributed across the full SDLC, from requirements analysis through deployment and client support.

APPLIED AI TOOLING

AI-assisted PR review pipeline. Integrated into CI to surface potential logic issues, missed edge cases, maintainability concerns and inconsistencies with codebase conventions as part of the pull request review process.

Dependency patching workflow. Investigates dependency-audit failures, tests upgrades where possible, and prepares reviewable patch PRs with rationale, speeding up the first response to vulnerabilities.

Document analysis tooling (in development). Building document analysis tooling for legal, identity and conveyancing workflows, focused on extraction, validation support and review assistance.

BEYOND CODE

Volunteer at Claymills Victorian Pumping Station — one of the UK's finest surviving examples of Victorian municipal engineering, supporting restoration, maintenance and interpretation. Active landlord managing a mixed residential and commercial buy-to-let portfolio.