

KEVIN MAYES

Senior Software Engineer | Solutions Architect Norwich, UK | [Contact Me](#) | [LinkedIn](#) | [kmayes.co.uk](#) | [thrilltrack.app](#)

PROFESSIONAL PROFILE

A pragmatic, tool-agnostic Senior Engineer and Architect with over 25 years of experience delivering robust, scalable software architectures. A strong believer in simplicity and selecting the right tool for the job rather than over-engineering. Expert in legacy system modernisation, data integrity, and high-level technical governance. Proven track record of protecting business-critical systems, designing clean APIs, and accelerating development velocity through modern AI-assisted engineering workflows.

CORE TECHNICAL CAPABILITIES

- **Modern Web & Backend Ecosystems:** Node.js, TypeScript, Vite, React, Python, PostgreSQL, RESTful APIs.
 - **Enterprise Architecture & Migration:** Systems Architecture, C#.NET Core, Microservices, Legacy Decoupling, Database Administration (MSSQL/Azure/2022).
 - **AI-Augmented Engineering:** Advanced Prompt Engineering, Cursor IDE, GitHub Copilot (leveraged for rapid prototyping, deep legacy codebase analysis, and documentation automation).
 - **Data Security & Compliance:** PCI DSS Compliance, Secure Authentication Models, Cryptography, Network Infrastructure.
 - **Methodologies:** Agile/Scrum, DevOps Pipelines, Technical Council Governance, PR Review & Mentorship.
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FEATURED TECHNICAL PROJECT

Creator & Architect | *Thrill Track* ([thrilltrack.app](#)) An independent mobile web ecosystem designed to optimise theme park transit routing using live metrics and geospatial analytics.

- **Lightweight Modern Stack:** Built the responsive frontend using **React and Vite**, powered by a fast, event-driven **Node.js** backend.
 - **Geospatial Data Pipeline:** Engineered a companion GPS mapping utility to audit and verify precise real-world coordinates on-site. Relational spatial data is processed and queried using a highly optimised **PostgreSQL** database.
 - **AI-Accelerated Delivery:** Fully utilised the **Cursor IDE** and advanced prompt engineering to rapidly prototype the architecture, automate complex API data-parsing workflows, and reduce time-to-market.
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PROFESSIONAL EXPERIENCE

SNAP | Norwich, UK *Senior Developer / Solutions Architect (Platform Pod)* | Jul 2024 – Present *Developer* | Feb 2022 – Jul 2024 *Appointed to the Technical Council to establish long-term architectural roadmaps, define company-wide engineering standards, and provide top-tier technical oversight.*

- **Architectural Governance:** Functioned as a vital checkpoint for system integrity; intervened to root-cause and resolve critical logic failures in core financial, invoicing, and credit systems to eliminate

cross-customer data leakage.

- **Solutions Architecture:** Led the Platform Pod's modernisation strategy, overseeing the transition of secure, PCI-compliant payment services. Identified and corrected architectural data omissions bypassing standard reviews to ensure structural integrity.
- **Security & Infrastructure Hardening:** Eliminated high-risk "SA-level" database access across the corporate ecosystem; executed a deep-level discovery project to successfully migrate legacy APIs and Azure cloud connection strings to modern, secure authentication models.
- **Pragmatic Problem Solving:** Strategically modified compiled legacy binary executables via hex editing to update hardcoded connection strings where original source code was missing, ensuring 100% business continuity with zero system downtime.
- **Modernisation Velocity:** Orchestrated a massive multi-year digital transformation migrating legacy desktop monoliths to clean, modern APIs and web portals (currently 95% complete).
- **AI Workflow Optimisation:** Integrated AI-augmented development tools (Cursor, Copilot) into the daily lifecycle to dramatically accelerate legacy code analysis, eliminate boilerplate, and expedite planning.
- **Mentorship:** Led PR code reviews and mentored junior developers with an emphasis on maintainable code, logical consistency, and proactive edge-case identification.

Norwich Bio-sciences Institute Partnership | Norwich, UK *Lead Developer* | 2017 – 2022

- Directed the full lifecycle architecture and migration of core scientific research applications from legacy Classic ASP to a modern, decoupled web layout.
- Managed end-to-end delivery from initial requirements gathering with scientific stakeholders through to deployment, security auditing, and documentation.

Havenstar | Norwich, UK *Integration & Support Consultant* | 2016 – 2017

- Managed complex, high-volume SQL database integrations and provided Tier-3 technical support for enterprise marina management software platforms.

Feedmark | Norfolk, UK *IT Manager / Systems Developer* | 2007 – 2016

- Designed and deployed bespoke corporate solutions covering Sales, Warehouse Logistics, and POS systems to phase out failing legacy applications.
- Maintained full infrastructure ownership while enforcing strict PCI DSS compliance standards for secure, high-volume payment processing.

EARLY CAREER LOGISTICS

- **May Gurney Ltd** | Systems Support Specialist | 2004 – 2007
- **Smurfit Sheet-feeding** | Application Developer (Delphi 5 / Pascal) | 1999 – 2003
- **Norwich Systems and Accounting** | Application Developer (VB6 / SQL / NHS Trust Systems) | 1997 – 1999

EDUCATION & INTERESTS

- **Education:** Great Yarmouth High School – GCSEs including Mathematics, English, and Science.
- **Interests:** Linux Server Administration, Open Source Software, Board Game Strategy, Racket Sports, and AI Prompt Engineering.