Alfie Payne

IT Expert Witness & Independent Technical Director

Contact

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Key Skills

- Programming languages including Python, Liquid, C++, PHP, JavaScript

- Proficient with cloud infrastructure, Google Cloud certified

- Database/analytic techniques including SQL (MSSQL. PostgreSQL, MySQL), Power BI, Looker Studio and Tableau

- Data science & machine learning experience using R and Python

- Proficient with Relativity, Exterro, X-Ways, and a range of eDiscovery tools

- Frequent speaker at industry conferences on matters relating to best practices in software and web development, data privacy and AI, including a TEDx talk in 2025 on AI.

- Member of the British Computing Society

- Bond Solon certified in Civil Law and Procedure

Alfie Payne is an experienced Technical Director who has his background principally in leading the development of bespoke software and web applications. Alfie's experience spans across several technical disciplines, such as system architecture design, algorithm development and system integrations. Alfie specialises in working with enterprise clients across the UK, North American and European markets where there are compliance requirements, and has taken several organisations through ISO, FCA and similar audits and accreditations. He has supported these clients with the turnaround of frustrated projects, technical due diligence, digital forensics, and greenfield product launches.

Before specialising in Expert Witness and tech dispute engagements, Alfie founded a web development agency and further worked as the Operations Director of a software development agency. He has also sat on the board of an eCommerce consumer retail brand as eCommerce Technology Advisor.

Notable Expert Engagements

- Instructed to act as an Expert Witness in a matter involving a bank to verify whether an individual had ever held an account and/or funds with the bank. Completed technical investigation, presented findings in CPR-35 compliant report and underwent cross examination in the High Court.

- Acted as litigation consultant in a high-profile software copyright case in the 9th Circuit California District court, including advising on code version control systems and commit manipulation and integrity, source and object code reviews, and DNS forensic analysis. Results and findings were presented across memorandums, expert declarations and presentations.

- Part of the Expert Testifying team to measure the impact of IP blocking orders made against Spanish ISPs. Devised and developed tooling to process these demands and quantify the collateral damage associated. Devised the methodology, developed the tooling and presented findings in reports, presentations and letters.

- Assisted the testifying expert with a technical investigation into assessing emails, screenshots and messages for the possibility of manipulation and fraudulent creation. Including

devising an NLP similarity scoring script. Findings presented in a DIAC compliant report and presentation.

- Assisted the testifying expert with a technical investigation into the possibility for message manipulation on Android devices of WhatsApp and Telegram messages. Including devising and executing complex database manipulation, Android OS manipulation and APK manipulation. Results drafted into CPR-35 compliant report.

- Assisted the testifying expert to complete a desktop report and CPR-35 compliant report addressing issues on data security and data storage technologies including hardware encryption standards and supplier compatibility with the relevant standards.

Advisory Engagements

- Engaged to lead on the implementation of a customer relationship management system for an energy infrastructure supplier in the Northwest of England, including organisation needs analysis, major stakeholder management, data migration strategy and execution and full management of tender process to appoint an implementation supplier (and separately platform selection).

- Engaged by a major bed linen retailer to implement an ERP system and develop a series of bespoke customisations. Developed data scrutiny features to enable quicker customer cash collection, reducing average receivables time to pay from 98 days to 64. Additionally, improvements in visibility of stock levels and enhanced discount modelling capabilities led to an increased stock turn from 7 to 11 times within one financial year.

- Engaged by a 42-site health brand to support a major digital migration strategy across the brochureware site, patient management system, online booking system and mobile app. Supported vendor selection and management, designed and executed data migration strategies and implemented a complete data visualisation suite to demonstrate impact of the migration.

- Engaged by pre-pack buyers of a major footwear brand to complete the migration of several websites and their infrastructure, including securely transferring customer data in accordance with the UK's Data Privacy Act & US California Privacy Act.

- Engaged by an office-lettings company to complete a vulnerability assessment and migration strategy for their web infrastructure, to migrate away from a bespoke Ruby on Rails website which contains a complex CRM and lettings management system integration.

- Engaged by an F&B retailer expanding from the UK into the UAE market to provide a comprehensive technical readiness assessment of their digital estate, including a mobile app for customer loyalty, business-wide ERP and websites.

- Engaged by a 17-site, 8 entity body shop repair group to standardise their accounting data storage and tracking techniques, including data transformations to provide a uniform chart of accounts. With this data transformations and visibility complete, an automatic TWCF could be devised and was refined to be accurate within two percentage points.

- Engaged by a major motorsport venue to architect and implement end-to-end user tracking of a high-volume ticketing platform which served 16 million transactions within 48 hours. Included mitigating the impact of tracking technology against load time and optimising the transmission of collected data not to impact server response times when under load.

- Retained by a learned Royal Institution to devise and oversee a digital transformation and analytics scrutiny strategy, including the introduction of a CRM system and strategy, digital payments system and digital community.

- Retained by a London-based Venture Capital firm to ensure their compliance with the FCA Cyber Security and Data Protection regulations relating to investment activities, including authoring the relevant sections of the compliance handbook, introducing statutory network controls and firm-wide training and examination of staff competency.

- Retained as the Acting Chief Technical Officer for a Denver based SaaS, leading on the code refactor of rank tracking algorithms with complex XPath scraping techniques and the system architecture overhaul of VPN and proxy infrastructure and device emulator load-balancing.