

# DAVID BOND

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## FULL STACK SOLUTIONS ARCHITECT

An accomplished, efficient Full Stack Solutions Architect specialising in Infrastructure as Code (IaC) and secure pipeline development. Expert in CI/CD optimisation, cloud managed Infrastructure, and creating scalable, high-performance software as a service (SaaS).

### KEY SKILLS

Problem Solver | Excellent Communication | Lifelong Learner | Team Player

### TECHNICAL SKILLS

AWS | Kubernetes | Helm | Envoy Proxy | Docker | Code Build | Code Deploy | CloudFormation | Jenkins | Circle CI | GitHub / GitLab Actions | Ansible Playbooks | Bash | Shell Scripts | Terraform | JavaScript | TypeScript | Golang | Java | Python | Objective C | Swift | Cocoa Pods | Apple Developer License | React | Next | Express | Jest | TSOA | MS SQL | Redis | Couchbase | Sync Gateway | Vault | Agile | Kanban | Scrum | New Relic | Grafana | Prometheus | ELK | Sys Dig | Black Duck | Code QL | Mend | Check Marx | Prisma | Xcode | Visual Studio | Eclipse | Android studio

### PROFESSIONAL EXPERIENCE

#### **Kainos PLC Lead Software Engineer** **Dec 2025 – Present**

Responsible for leading design and delivery of innovative software solutions for government and enterprise clients. He drives technical strategy, mentor engineers, and champions best practices in cloud architecture, automation, and secure software development. David is accountable for ensuring solutions are robust, scalable, and aligned with client requirements, utilising modern cloud and DevOps tooling to deliver high-quality outcomes.

Leads technical delivery for complex digital transformation projects, ensuring architectural integrity and compliance with security standards.

Oversees team performance, career development, and fosters a culture of technical excellence.

Implements Infrastructure as Code (IaC) and automation pipelines leveraging AWS, Terraform, and CI/CD tooling.

Engages directly with stakeholders to capture requirements and deliver solutions that meet business objectives.

Collaborates with cross-functional teams to define technical strategy and drive innovation.

#### **TM GROUP Lead Software Engineer** **Feb 2025 – Oct 2025**

In a world where legal technology is constantly evolving, Lawtech Software Group stands at the forefront of innovation. We are dedicated to revolutionising the legal sector by building proprietary tech solutions that facilitate seamless interactions between lawyers and their clients. My Mission is to architect and implement zero-touch Enterprise solutions, where infrastructure provisioning, maintenance, and deployments are fully automated through GitHub Actions, ensuring consistent and reliable delivery of services.

##### **Architect:**

- **e-Sign 365 Product Development.**
  - Led the development of a new e-Sign 365 product, implementing a robust TypeScript backend for qualified electronic signatures. The system ensures compliance with legal

requirements while providing a seamless user experience for document signing workflows.

- **GitHub Actions & AWS CDK Infrastructure.**
  - Engineered a zero-touch infrastructure platform using AWS CDK, orchestrating critical services including AWS PostgreSQL Aurora DB, AWS Document DB and AWS ECS stack with automated SSL management. Leveraged GitHub Actions to create end-to-end deployment pipelines, enabling seamless container orchestration and continuous delivery to ECS environments.
- **Version Control & Deployment.**
  - Developed robust versioning strategies and automated deployment processes for Docker images to ECS stack, ensuring consistent and reliable delivery of services.

### **Management & Strategy:**

- **Development Team Leadership.**
  - Lead and mentor development teams, fostering a culture of technical excellence and innovation. Responsible for team growth, performance management, and technical career development.
- **Technical Strategy Board Member.**
  - Active member of the Technical Strategy Board, contributing to long-term technology decisions, architectural standards, and innovation initiatives. Drive strategic technical direction and ensure alignment with business objectives.
- **Architecture Governance.**
  - Establish and maintain architectural standards and best practices. Lead technical reviews and ensure compliance with security, scalability, and maintainability requirements across all products.

### **Skills:**

TypeScript, AWS CDK, GitHub Actions, Docker, AWS ECS, AWS PostgreSQL Aurora, AWS Document DB, Infrastructure as Code (IaC), SSL Management, Automated Deployment, Electronic Signature Systems, Team Leadership, Technical Strategy, Architecture Governance

### **SAP CONCUR Principal Engineer      Mar 2019 – Nov 2024**

As a Full Stack Solutions Architect, I excel in designing solutions that enhance operational efficiency and ensure regulatory compliance. I spearhead initiatives involving GraphQL, AI/LLM services, TypeScript frameworks, AWS migration, and cost optimization. My responsibilities include contributing to the Development Security Architect Review Board, serving as Area Principal of the Central Architect Committee, and actively participating in the Concur Product Standard Round Table for Security.

- **GraphQL Gateway** - Designed and implemented an Orchestration service that provides a single endpoint for both web and mobile clients. This robust service efficiently handles 1 billion GraphQL queries per week and automatically scales to meet demand.
- **Development Framework** - Created a robust TypeScript framework using TSOA, integrating essential features such as logging, security, and request libraries to address critical company

requirements. Reduced developer time for new SaaS by 50%. Developed the following service utilising the development framework:

- **Emissions Service** - Abstracted the data model for internal downstream service utilising a 3rd party vendor to calculate the carbon footprint.
- **Question & Answer service (AI / LLM)** - RESTful API service that enables seamless data embedding (vectorisation) and retrieval. Enabling multiple teams to upload documentation and integrate a chatbot interface in Slack.
- **Migrating Service from Data Centres to AWS** - Led strategic migration to AWS, containerising services and automating deployment via zero-touch CI/CD pipeline into an EKS cluster. Reducing the time to deploy from weekly to multiple times a day.
- **Cost Optimisation** - Analysed AWS usage and implemented systematic resource management using CloudWatch Alerts, successfully reducing costs by up to 70%.
- **Security and Optimisation** - Proactively addressing emerging security and regulatory needs, ensuring the ongoing compliance and reliability of services. Consistently optimised code for performance and scalability, aiming to deliver the best possible service.

#### **SAP CONCUR Senior DevOps Engineer      2016 - 2019**

Enhanced expertise in both development and operations by embracing DevOps principles, effectively bridging the gap between disciplines and continuously improving operational excellence.

- Built a single-entry point into the company's data using Facebook's GraphQL and developed an orchestration service with Elixir for scalability and fault tolerance.
- Managed deployments with Ansible scripts, ensuring smooth and repeatable processes into data centres.
- Focused on CI/CD to automate and streamline the development pipeline, and migrated the service into a Kubernetes cluster, achieving flexibility, scalability, and resilience.
- Leveraged Kubernetes for efficient containerized application management, ensuring optimal resource use and high availability.

#### **CONCUR (SAP CONCUR 2014) Senior Mobile engineer      2013 - 2016**

Transitioned to the mobile development department to work on the Concur Travel and Expense solution.

- Leveraged extensive knowledge to create backend APIs tailored to mobile requirements.
- Collaborated closely with mobile app developers to ensure seamless integration and optimal performance.
- Enhanced the mobile application's functionality through efficient backend support.
- Focused on optimizing API performance for better user experiences on mobile platforms.

#### **CONCUR TECHNOLOGY LTD.**

##### **Senior technical Consultant II**

**Jun 2001 - 2013**

As a Senior Technical Consultant, was responsible for the implementation & customisation of the Concur Expense Management solution for clients in the UK and Europe. Clients included KPMG (Watford), Diageo (London), Gillette (London), Daimler Chrysler (Milton Keynes), Pfizers Europe (London), Novo

Nordisk (Copenhagen), Optima Finance (Madrid), Amena (Madrid), DuPont (Thetford), Black & Decker (Slough) and Quintiles (Edinburgh).

## **EDUCATION**

BSc (Hons) Applied Computing, University of East Anglia

## **HOBBIES | INTERESTS**

DIY | Rugby | Cars