

# DAVID BOND

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https://davebond.me

## FULL STACK DEVOPS ENGINEER

An accomplished, efficient Full Stack DevOps Engineer 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

#### SAP CONCUR

##### Principal Engineer

Mar 2019 - Present

As a Full Stack DevOps Engineer, 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 – Mar 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