

NAUMAN KHAN

Lead Architect with 20+ years of technical leadership delivering large-scale cutting-edge solutions on cloud (AWS, Azure and Google), open-source, polyglot, microservice architectures for HMCTS, QiO, Sky, Goldman Sachs, Barclays Capital, JPMorgan, Schroders and Cap Gemini - using Agile/SAFe.

Key strengths

- authoritative technical leadership
- great communicator
- extremely strong technical skills
- ability to work well with others
- entrepreneurial mindset focused on business value

CAREER SUMMARY

Lead Platform Architect – HMCTS - Contract - Jan '18 to present

Lead Platform Architect in the £2B Civil, Family and Tribunals (CFT) Reform Programme.

- Leading a team of architects and working with business and technical stakeholders to ensure overall platform and applications are optimal for delivery and sustainability.
- Technical authority for the CFT platform, which has 100+ components, 50+ technologies and 20+ scrum teams. Also, Lead Architect for the CFT Case Management Platform as a Service, ensuring the case management solution is fit to replace existing 50+ case systems in CFT.
- Working in a formal architectural governance framework on a large digital transformation programme, producing High-level Solution Approach and High-level Design documents on a regular cadence using Scrum for architecture.
- Challenges included defining technical strategy, ways of working, design principles, COTs vs software engineering, release automation, monitoring, vendor and tender reviews, in a very fluid, maturing digital organisation with numerous suppliers.
- Extremely rewarding to deliver digitally transformed systems 'to improve citizen happiness during most vulnerable and stressful experiences'.

Principle Architect / Accelerator Team Lead - QiO Technologies - Contract - Jan '16 to Jan '18

Principle client-facing architect, with end-to-end delivery responsibility for all greenfield customer IoT projects, with stakeholder management and commercial responsibilities for Rolls-Royce and Lloyds Register.

Head of the Accelerator Team, responsible for end-to-end delivery (from requirements gathering to implementation to go-live) for the first MVP of all new consultancy projects - including setting up and running the accelerator function. The result was the delivery of many successful multi-million pound engagements and directly leading to multi-million pound investment in the company and platform.

- Leading three full-product teams of product owners, architects, UX, data scientists and full-stack DevOps engineers.
- Delivering rapid change for Industry 4.0 using modern open-source, cloud and DevOps technologies.
- Primary point of contact with customer business teams to identify untapped business value and high-value use cases with subject matter experts.
- Reporting to CEO and working with customer CTO's to accelerate digital transformation.
- Managing transition to sustained SaaS revenues and product harvesting.

- Leading security, enterprise, cloud, infrastructure, software and integration architects, to author and sign-off SADs, IADs, LLDs and Final Reports.
- Helping product managers to create business model canvases, persona profiles, customer validation sessions, competitor analysis and product-market-fit.

Hands-on full-stack development for Industry 4.0 MVPs for multiple global clients.

- Full-stack development using Java 8, Spring, Apache Spark/Kafka/Cassandra, MongoDB, Angular, Polymer2.0
- Leading BDD culture shift using Cucumber and continuous delivery pipelines on Jenkins with Canary Releases.
- Self-service DevOps culture with deployments on a AWS and BT Cloud using Kubernetes and Docker.
- Coaching Agile principles to clients and Universities on subjects including Cloud Neutrality, DevOps, Product Ownership, Product Management and Microservices.

Technical Solutions Architect and Tech Lead – Sky - Contract – Jan '09 to Jan '16

Tech lead for the Online Sales platform for 7 years, seeing it from inception to becoming the primary Sales channel for all Sky products (with annual revenue surpassing £2B). The key achievement was to design and build a mature, stable, polyglot, open architecture, cloud based platform using modern development, testing and release capabilities that successfully delivered many programmes and campaigns including Sky TV, Sky Q and Sky Mobile.

Technical authority for a tribe of 6 Agile teams in Digital Trading (Online Sales) – Sky's primary channel for selling products and subscriptions.

- Technical authority for solution approach and quality, currently managing multiple large business critical programmes on aggressive timescales in a service orientated, cloud based, open source, polyglot environment.
- Leading full-lifecycle of Sky's primary sales channel during many major programmes, projects and hundreds of releases.
- Responsible for vendor selection, technical reviews and audits, defining new integrations, future trend analysis, team building and mentoring 25 developers.
- Running architecture workshops, leading architects, weekly developer meeting, resilience reviews and technical escalation authority for all of Online Sales.
- Transitioning the solution stack from a waterfall application taking 5% of Sky's sales on a 6-week release cycle to a complex continuous delivery system which is now the highest sales channel performing daily releases.
- Guided the team from a single application deployed on one physical server to a solution stack of 50 distinct applications, written in 30 different technologies, deployed on hundreds of virtual servers on various clouds.

Hands-on development and delivery of Sky's primary Sales channel www.sky.com/shop for over 7 years and ensuring the stack remains the strategic Online sales platform.

- Migration of legacy server-side Java MVC stack to client-side rendering technologies.
- Implementation of content managed brochure-ware solution.
- Build and support of secure payment and checkout application.
- Creation of pre-registration websites and framework.
- Creation of journey specific solution stacks.
- Distributing the architecture using micro-services.
- Re-platforming to strategic sales middle-ware platform.
- Effecting Continuous Integration and Deployment using various build technologies.

Technical Architect - Schroders - Contract - Dec '07 to Dec '08

Architecture review of Schroders strategic web platform. Full review of current J2EE architecture, troubleshooting and implementing recommendations, improving stability from 85% uptime to 99.9% uptime. Identifying and resolving memory leaks and performance improvements using multi-threading.

Technical Architect and Tech Lead - JPMorgan - Contract - Mar '07 to Sep '07

Team lead and architect for JPMorgan's Asset Management web architecture.

- Full life cycle of Asset Management web architecture, leading a small team on a J2EE project in an Agile environment. Delivery of a solution for 'marketing mini-sites' to be created and deployed within 1 day.

Technical Architect - Barclays Capital - Contract - Sep '05 to Mar '07

Architecture and implementation of the www.barclayscapital.com site.

- Architecting and delivery of the firm's strategic Internet and Intranet enterprise level content management system and J2EE architecture, with over 50 components costing £1M including software selection, capacity planning, hardware costing, sizing, security, network usage, etc. Full life cycle development of corporate web solution.

Senior Java Developer and Team Lead - Goldman Sachs - Perm - Sep '03 to Sep '05

Technical lead on a client-facing, cross product J2EE client valuations system.

- Managing sprints with Front-office and Middle-office to integrate new trade flows, product structures and pricing systems using SecDB and Slang. Gained an understanding of the structure and pricing of various Fixed Income and Equities products. Developing multi-threaded real-time pricing middleware.

Architect and Lead Java Developer - fish4.co.uk – Perm - Jan '00 to Sep '03

Full lifecycle of www.fish4.co.uk websites from design to delivery. Responsible for architecting and developing the core fish4 technology on to a Java/Oracle platform.

- Leading a small team on Britain's 2nd largest jobs, homes and cars websites, serving more than 6 million searches a month. Architecting and team leading development of the core technical architecture.

Java Developer - Cap Gemini – Perm - Dec '97 to Dec '99

- Development of web-based commerce systems using Java and Oracle 8i for various clients including GMAC, DTI, IPC Magazines and achieved a grade one review, highest of any graduate in the organisation.

EDUCATION

BSc (Hons) Computer Science - King's College London, University of London '94 to '97. A-Level (Computer Science, Physics, Mathematics)

INTERESTS

Built and open-sourced a mobile-phone app in 2003 that was downloaded more than 3 million times.

Founder of The Solution Crowd - a guild of senior professionals to provide technology advice to charities, local businesses and large corporates (see www.thesolutioncrowd.com)

Co-founded a charity which raises circa half a million pounds a year to help support local community projects with speakers like HRH The Prince of Wales at venues including the Houses of Parliament.

First started coding when I was 6 years old, I still build SaaS products in my spare time (see <http://kpi.management>) – this helps refresh my cloud / full-stack coding skills and feed my interest in Lean start-ups, full-product thinking and entrepreneurialism as a tech incubator.

CONTACT

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