

Tom Gilbert, Curriculum Vitae

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Summary: I have significant experience spanning application development, infrastructure and operations, managing large projects, RFPs, and running software development and infrastructure teams. I combine technical breadth and depth with commercial acumen, innovation and strong communication skills. Currently leading a global engineering organisation responsible for Deutsche Bank's target IT platforms, which host 1,200 applications and 6,300 web sites (30% of the Bank's applications). I conceived, designed and built these hyper-scale, market leading platforms and they have saved DB over 400 million Euros since inception whilst maintaining 99.99% availability. I am driving a huge organisational change program with an 80m Euro business case that will fundamentally disrupt the future state architecture of DB and get 85% of our applications on our target platforms (PaaS and public cloud).

Employment history

March 2017 - current: Deutsche Bank – **Managing Director**; Global Head, Application, Web and Integration Platforms, COO CTO

Additionally responsible for integration platforms: Messaging; File transfer and ESB. Driving a Platform-first strategy for the firm, with the aim to run the majority of our applications on our Docker and Kubernetes-based PaaS by 2022.

Feb 2012 – March 2017: Deutsche Bank - **Director**; Global Head, Application and Web Platforms, CTO

Responsible for the Deutsche Bank's Application and Web Hosting Platforms, which play a large part in the strategy of CTO. I lead a global engineering organisation across London, Frankfurt, New York and Cary. I am additionally a member of the CTO Architecture Forum, lead a CTO Vision & Transformation Network team, represent the Bank at industry events and work closely with FinTech and our innovation labs in London and Silicon Valley.

I initiated the original business case, and lead the technical delivery of Strategy 2020 Everything as a Service (EaaS), which is a once in a decade opportunity to transform the way we build and run our IT, focusing on Platform as a Service, Infrastructure as a Service, Containerisation, API frameworks and Public Cloud. As part of this program I have built new teams, garnered requirements across COO, worked collaboratively to select technology and design a new, modern PaaS for the Bank which will allow us to transparently consume private and public Infrastructure as a Service whilst modernising our applications, making them easier to operate, reducing risk and cost.

I have brought innovation and new technology into the Bank including through FinTech (Waratek), our innovation labs (AVI Networks) and EaaS (Red Hat OpenShift).

Jan 2009 - Feb 2012: Deutsche Bank - **Director**; Global Head of Service Design, Service Transition

Responsible for running the Service Design (Architecture and Service definition) and Service Transition (Engineering and roll-out) functions for our Enterprise Application Services organisation, across 32 different middleware infrastructure services, including Web and Java platforms, Messaging, Content Management, Single sign-on, Business Process Management, Enterprise Service Bus and Directory infrastructure. (Includes the groups from prior roles).

August 2006 - Jan 2009: Deutsche Bank - **Director**; Global Head of SOA Services

Formed the SOA Services group and promoted to dual roles of Global Head of SOA Services and Global Head of Process Development. The SOA Services group provided Service Oriented Infrastructure (managed services/utilities) for SOA applications and application components within the Bank, responsible for large-scale J2EE application, SOA BPM and ESB infrastructure. During this time I revamped our DBUS messaging platform, designed and built the MESH ESB Platform.

June 2005 - August 2006: Deutsche Bank - **Vice President**; *Global Head of Web Infrastructure*
Created the global engineering function for Web Infrastructure, now comprising DAP, dWeb and dWeb CMS. Also involved in a number of other projects in a consulting capacity and responsible for communicating the benefits of, and driving adoption for the concepts of Service Oriented Infrastructure and Service Oriented Architecture across the Enterprise.

Jan 2003 - June 2005: *Lead Architect, Assistant Vice President*; Deutsche Bank

I joined DB permanently to build DAP - the Deutsche Bank Application platform - a global, highly automated, clustered Java hosting environment. I met challenging deadlines to deliver on time. Built up an engineering team, a support team, and managed relationships with clients whilst simultaneously developing the software that runs the platform.

March 2001 - Dec 2002: *Consultant, Finetix (UK) Ltd, working within Deutsche Bank*

Brought into DB as a consultant to fix an ailing web farm running a few hundred web sites for the Bank. It was neither stable nor performant. I brought it up to a good standard of reliability, and made several source modifications to the Apache web server and related modules to increase security and performance. Saw the product through two large scale OS migrations.

Before the end of my contract, I rewrote the platform as a self-service, horizontally scalable linux based architecture, and launched it as a product - dWeb, which now runs over 6,000 web sites and web applications globally for DB.

November 2000 - March 2001: *Analyst Programmer, Killik & Co Stockbrokers.*

Developed new company website and secure online trading application from scratch, including physical rack-and-stack and software delivery. Project completed within demanding 3 month deadline.

September 2000 - November 2000: *Systems Engineer/consultant, ID-Pro UK Ltd.*

Specialist in building and configuration of clusters using Beowolf and Mosix technologies enabling high performance parallel computing or high availability systems. Unfortunately, ID-Pro pulled out of the UK due to lack of funding in November 2000.

July 1998 - September 2000: *Project Scientist, Innovations Research Dept, British American Tobacco*

Responsible for the project management of two R&D projects and the leadership of a team of 4. I learned a great deal about project management and how to run a team. I simultaneously implemented several IT projects, including sampling automation, SQL databases and data acquisition.

Technical Skills

LEADERSHIP: Building and leading high-performing teams, managing through change, agile.

PROGRAMMING: Highly experienced software and web application developer in C, Perl, Ruby, PHP and shell scripting; Strong C++, Python, SQL, XML; Java/JEE; SOA and BPM patterns.

SOFTWARE: OpenShift; Docker; Kubernetes; API Platforms; Amazon Web Services; MS Azure; Google Compute Engine; Apache; Weblogic; MySQL/MariaDB; Tomcat; JBoss; Spring; Oracle; and much more.

Education

1987-1994: The Portsmouth Grammar School

10 GCSEs and 1 A/O Level (Maths)

A-Level Results: Chemistry - A, Maths - A, Physics - A.

1994-1998: The University of Bath - BSc honours degree in Chemistry.

Interests

I spend most of my free time furthering my knowledge of architecture, software and development. I enjoy reading a lot (predominantly science fiction) and have written a variety of open-source software, much of which still appears in official Linux distributions. I love exercise and the outdoors, running and cycling regularly. I am also a keen amateur photographer and drone pilot.