

## Amit D. Lakhani

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### **PROFILE SUMMARY:**

- Deep experience, knowledge and implementation know-how of Operational Resilience in Corporate and Institutional Banking (CIB) business domain, working closely with business, Operations and IT stakeholders in a banking environment.
- Proven risk management experience by standing shoulder-to-shoulder with business, raising information risks at board level and enabling business through risk mitigation, acceptance or avoidance measures.
- Solid financial services experience including banking, asset management, consultancy and technical background in information security, information security risk management and programme portfolio management whilst delivering programmes worth \$100m+.
- Deep expertise in developing and implementing information technology and cyber security strategies for organisations of different sizes and defining long-term capabilities roadmap.
- Managed and driven outcomes in regulated environments and faced-off to local and international regulators.
- Managed global teams both onshore and offshore to deliver large IT programmes and projects and managed relationships with business partners, solution vendors, regulators and auditors.
- Strong educational background from the best countries in the world.
- Strong references.

### **OBJECTIVE:**

To lead challenging functions, programmes and deliver value-adding outcomes at a progressive firm, enhance my problem solving, consulting and networking skills and develop in-depth knowledge of the field I tread in.

### **EDUCATION:**

**Royal Holloway, University of London**, Surrey, UK  
Graduation: November 2006  
**M.Phil. in Information Security**

Class: Distinction

**Royal Holloway, University of London**, Surrey, UK  
Graduation: November 2003  
**Master of Science in Information Security**

Class: Distinction

**Stevens Institute of Technology**, New Jersey, USA  
Graduation: May 2002  
**Master of Engineering in Computer Engineering**

GPA: 3.62 / 4.00 (Distinction)

**Shantilal Shah Engineering College**, Gujarat, India,  
Graduation: July 1999  
**Bachelor of Engineering in Instrumentation and Control Engineering**

GPA: 72% (Distinction)

### **CERTIFICATION AND TRAINING:**

**CISM** – Certified Information Security Manager ([www.isaca.org](http://www.isaca.org))

### **EXPERIENCE:**

**BNP Paribas S.A., London, UK**

03/2018 – Present

**Head of Operational Resilience, IT Risks, Third-Party Risks and Fraud Risk Management for CIB (2LoD)**

- Global head of Operational Resilience, IT risks, Third Party and Fraud Risk management for Corporate and Institutional Banking business covering Global Markets, Global Banking, Securities Services business lines and functions for four regions and territories (Americas, APAC, EMEA and UK).

- Co-designed and implemented an operational resilience framework and methodology across CIB in 4 regions, worked closely with businesses, Operations and IT stakeholders to get it to maturity and demonstrated success by evidencing it to regulators and internal audit teams with successful outcomes.
- Cover all aspects of IT from development, production, security and risk management by constantly checking and challenging of the operations done by IT, Third-party risk teams and fraud risk teams.
- Managing a staff of 13 direct reports (and 37 team members) spread across the globe to cover four prime regions for CIB – Americas, APAC, EMEA and UK.
- Contributed to Group policy and procedure framework, developed and then implemented operational procedure and framework suitable for CIB for IT Risk management and third party risk management. Whilst doing this developed in-depth knowledge and experience in structuring of policies, standards and operating guidelines globally.
- Regular engagements with regulators in relation to providing an independent opinion on the transversal risk management in payment infrastructures, cyber security, operational resilience, outsourcing, third party risk management and threat intelligence.
- Stakeholder management and relationship building at all levels from CIOs, technical experts to Head of CIB and Group CRO in identifying, assessing, challenging, remediating and reporting on these three transversal risk topics.
- Developed and implemented cutting edge solutions using Artificial Intelligence (AI) and in some cases Machine Learning technologies to enhance the fraud detection and prevention mechanisms, specifically for payment chains, authentication and non-repudiation of payment instructions, identification of incidents in the past 5-10 years both internally and externally and aligning these with the risk assessment framework.

**Hermes Investment Management Ltd., London, UK**  
**Head of Information Security**

08/2016 – 03/2018

- Led the Information Security function that included IT security, cyber security, data protection and physical security at a large institutional asset management firm with Assets Under Management (AUM) of £28billion.
- Developed and delivered on a 2-year roadmap and strategy for information security for Hermes and its clients that includes security awareness, privacy protection (GDPR), policies and procedures framework, network access control, information classification and privileged access management systems.
- Developed a strong network of CISOs and Head of Information Security across investment management firms and regularly discuss issues and solutions to attain mutually beneficial goals.

**Williams and Glynn, Royal Bank of Scotland, Manchester, UK**  
 Cryptography specialist and project manager (Contract role)

06/2016 – 08/2016

- Worked as a cryptography specialist to implement critical key management activities as part of mobilising a bank due to divestment by RBS of Williams and Glynn bank branches.

**Deutsche bank, London, UK**  
**Information security consultant (Contract role)**

03/2016 – 06/2016

- Completed a number of security risk assessments based on the CoBIT framework for a number of departments/functions at DB.
- Developed the risk assessment methodology and led delivery of risk assessments through a team of 7 consultants to complete risk assessments within a committed and short time period.

**KPMG LLP, London, UK**  
**Senior Manager, Information Protection and Business Resilience**

11/2012 – 03/2016

- Led, developed and delivered multiple cyber security engagements for financial services, oil & gas, retail and pharmaceuticals sector clients related to process control security, mobile device and infrastructure security, advanced threat management tools, malware protection and incident response.
- Developed a cyber security proposition for investment management firms, developed collateral and took it to market while providing deep insights and value to clients and generating £1m+ revenue yearly for KPMG.
- Developed business worth £500K for KPMG within a quarter of joining by interacting with C-level executives and understanding and delivering to their requirements for various engagements.

**Accenture (UK) Limited, London, UK**  
**Information Security Manager**

07/2007 – 11/2012

- Worked on various Security projects for Oil & Gas, Banking and Public Sector clients including UK government.
- Projects included designing security architectures, compliance to a number of regulatory standards, delivering security technologies and risk assessments.

**Science & Technology Facilities Council, Oxfordshire**  
**IT Security Researcher**

06/2006 – 07/2007

- Developed a Web-based Operating System for Grid systems called XtreamOS (<http://www.xtreemos.eu/>).
- Main area of focus was providing security services within the operating system.

**Royal Holloway, University of London, Egham, UK**  
**Information Security e-Tutor**

08/2003 to 06/2006

- Moderated and administered the Distance learning course for MSc in Information Security for University of London's External Programme.
- Maintained and developed web-based teaching material using Macromedia Flash, DreamWeaver.
- Conducted and moderated online seminars (webinars).

**REPRESENTATIVE PROJECTS:**

**BNP Paribas S.A.**

**Role – Programme co-lead (with first line of defence teams)**

- Designed an approach in alignment with global regulatory guidelines on Operational Resilience for all regions and business for CIB.
- Upon validation, implemented the framework – identified the key Critical Business Services (CBSes), Mapped services to resources, set impact tolerances for the identified CBSes, preliminary tested the CBSes and provided evidence along the way to regulators and internal audit teams (IG).
- Successfully led and agreed on the ownership of the subject, buy-in from multiple stakeholders, and presented several times at Group Senior Management (Board) meetings.

**Clients – Schroders, Fidelity Investments, LGIM and other investment management (IM) firms**

**Role – SME and Account Manager**

06/2013 – 03/2016

- Delivered multiple cyber scenario exercises (tabletop and complex) to understand and stress test clients' incident management processes.
- Developed and implemented solutions for protecting High Net Worth Individuals (HNWI) data and providing special experience for such clientele.
- Understood and discussed multiple attack vectors, threat modelling and security controls on the IM value chain.
- Assessed and provided valuable insights on information security strategy, investment and human capital value for IM clients.

**Client – BP International**

**Role – Project Delivery Lead / Security SME**

11/2012 – 06/2013

- Developed, programme managed and delivered multiple engagements at the client related to information security strategy development, risk assessments for Upstream functions, process control network security assessments, mobile device management, advanced threat mitigations, and third party security reviews.
- Served as a direct report to Group CISO, managed multiple CISOs in the business and Heads and VPs of the IT organisation.
- Business development of >£700K within 6 months of joining KPMG by engaging with CISOs and CIOs at the client and delivering programmes and projects.
- Assisted in launch, mobilisation and delivery of a large advanced threat mitigation programme at the client by engaging with senior management from business and digital security team within the support and security functions.

**Client – Shell Oil and Gas Company**

**Role – Global Security & Compliance Lead/Manager**

9/2008 – 11/2012

- Led and delivered an information security strategy, security architecture and compliance on a \$450m, 6-Year project for 20+ markets for the client.
- Reported directly to the General Manager of Site Systems, Head of Information Risk Management team, Downstream CIO and General Manager of Payments and Loyalty.
- Continuously achieved compliance to PCI DSS and PCI suite of standards, EMV and internal compliance for 20+ upgrade and replacement projects/countries.
- Managed at least 30 resources (24 direct reports) in various markets and engaged with 5 stakeholder teams including > 50 personnel, external PCI assessors (PCI QSAs), client security and project Leadership team.
- Security, infrastructure and compliance programme management for > 40,000 retail sites covering 3 continents (20+ countries). This included running individual projects covering planning, requirement gathering and specifications, design, build, test, deployment and support.

**Client - Large UK-based Bank**

**Role – Security Solutions Architect**

2/2008 – 9/2008

- Development and delivery of cryptographic solution for banking giant, the core part of which was processing more than 45,000 transactions per day valuing multi-billion dollars.
- Replacement and cutover of key security components for the client which were the core entities responsible for processing multi-billion dollar transactions.
- Delivery in challenging timelines and renewed credibility for Accenture with the client.
- Project management and planning for a highly intensive piece of work covering requirements gathering, design, build, test and delivery.

**Client - Her Majesty's Revenue and Customs (HMRC), UK**

**Role – Information Security Consultant**

7/2007 – 2/2008

- Design and development of an authentication and access control layer on tax records for Special Customers for HMRC
- The project included working with three other competitors and stakeholders under the ASPIRE alliance for HMRC.

**SKILLS:**

**Business Intelligence /  
Visualisation**

**technologies:** PowerBI, DAX in PowerBI and Tableau.

**Security Technologies:** Hadoop, HIVE and OOZIE, ISO 27001, 27002, PCI-DSS, PA-DSS, PCI-PED/PTS, EMV, SOx and SEPA, X 509.1 certificates, SSL, TLS, Key Management and Cryptography.

**Databases:** Oracle 10, MySQL, MS SQL Server

**Network protocols  
and architectures:** TCP/IP, ICMP, UDP, BGP, MPLS architecture, eVPN and VPNs.

**Operating Systems:** Linux (Kernel 2.8+) – Debian, Red Hat, Windows 95/98/2000/XP/ Vista/7.

**Hardware:** IBM-compatible PC assembly, branching in Pentium processors, Procurement and installation of Servers

**PUBLICATIONS:**

- S. Balfe, A.D. Lakhani and K.G. Paterson, Securing Peer-to-Peer networks using Trusted Computing. Chapter 10, in C.J. Mitchell (ed.), *Trusted Computing*, IEE Press, 2005, pp.271-298.
- S. Balfe, A.D. Lakhani and K.G. Paterson, Trusted Computing: Providing security for Peer-to-Peer Networks. In G. Caronni et al., *Proc. Fifth International Conference on Peer-to-Peer Computing*, IEEE Computer Society, 2005, pp. 117-124.
- A. D. Lakhani, E. Y. Yang, B. Matthews, I. Johnson, S. Naqvi, G. C. Silaghi. Threat analysis and attacks on XtreamOS: A Grid-enabled Operating System, CoreGrid symposium, Rennes, France, August 2007.

- A. D. Lakhani. Deception techniques using Honeypots. M.Sc. Thesis, Guided by Prof. Kenneth G. Paterson, ISG, Royal Holloway, University of London, 2003.
- A. D. Lakhani. Security flaws in Windows XP (Home) – An insight into the remote login feature. Technical paper, Stevens Institute of Technology, January 2002.
- A. D. Lakhani. Wireless Application Protocol (WAP) and i-mode: an insight, Technical paper, Stevens Institute of Technology, April 2001.
- A. D. Lakhani. Thread-level Data Speculation, Technical paper, Stevens Institute of Technology, December 2000.

#### **REFERENCES:**

Upon request

#### **OTHER INTERESTS:**

- I am a keen runner and love cycling/biking. Heavily involved in many group activities in cycling including London to Brighton, Tour of Cambridgeshire and others.
- I live in Milton Keynes with my wife and two boys (14 years and 8 years old), the elder aspiring to be an astronaut and the younger one curious as a cat.
- Languages – English (Fluent), French (Basic), Hindi (Fluent), Gujarati (Mother tongue).