WALLACE PITT

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Wallace Pitt is an experienced Management Consultant and Information Technology Risk Management professional with over 20 years of IT Management consulting experience, providing advice to medium-sized and large Canadian companies.

Wallace provides strategy and advisory services, program management and planning across a range of IT disciplines, with special focus on Cyber Security, Enterprise Architecture, Cloud Technology Solutions, Electronic Commerce Strategy, IT Project and Program Management services. His consulting disciplines were crafted at premier professional services organizations such as Deloitte and Guardent Inc. (now Verisign).

Wallace has provided IT consulting/advisory services to financial institutions including RBC Royal Bank, ScotiaBank, CitiBank, CIBC and TD Bank. He has also managed and delivered consulting engagements in both Business-to-Business (B2B) and Business-to-Consumer (B2C) categories, providing expert advice to E-Commerce Service organizations such as CommerceOne (California), Moneris (Toronto) and Optimal Payments (Montreal).

Wallace is expert in the governance, assessment and delivery of Cloud, Website and E-Commerce frameworks and technology solutions; provides strategy and planning towards implementing and securing IT initiatives with financial services, telecommunications and government organizations (including RBC Royal Bank, Scotia Bank, Symcor Inc., TD Bank, Bell Canada, Ontario Power Generation, Hydro One and Government of Ontario).

As an IT Management Consultant, Wallace works closely with business units and technology architecture teams to establish and refine the organization's mobile, cloud, and E-Commerce strategies. He has developed and established programs for website governance, management and implementation. Wallace has maintained up-to-date expertise in cyber security disciplines, applying them to cloud architectures (SaaS, PaaS and IaaS) as well as to on-premise architectures. He is expert in the adoption of cyber assessment framework and design and deployment of Cloud Architecture solutions.

Among his early engagements in the E-Commerce space, Wallace provided technology consulting to BCE Emergis for a proposed Electronic Bill Payment and Presentment (EBPP) solution that would be integrated into existing Electronic Post Office offering (ePost); this was intended to deliver secure electronic mail services to B2C consumers via the Internet.

Wallace is currently engaged on assignment to **RBC Royal Bank** - providing technology consulting and advisory services to the Retail, Digital and Mobile Banking business units; this scope covers a wide variety of cards & payment channels/technologies including E-Commerce Payments, Mobile/mCommerce, Payment Cards (credit & debit).

Key Areas of Expertise:
- Strategic Planning, Research and Advisory Services to Business/ICT Programs and Projects
- Business Case & Use Case Development and Refinement for E-Commerce Business Solutions
- Secure E-Commerce and mCommerce Strategy and Planning; E-Commerce Payment Services
- Cloud Architecture and Website Governance Program Management
- Payment Card Industry (PCI) Data Security and related standards (PCI-DSS, PCI-PIN, PA-DSS)
- Cyber Security Strategy, Planning and Implementation
- Portal Framework and CRM Solution Security Design (Oracle/Seibel and SAP ERP)
- Network Security technologies (VPN, firewalls, Intrusion detection, Intrusion prevention)

- Securing Microsoft Active Directory, Microsoft Sharepoint (MOSS), MS SQL Server and Oracle
- 3rd Party Supplier Risk Assessment; 3rd Party Vendor Due Diligence & Contract Reviews
- Privacy Impact Assessment & Privacy Compliance (against FIPPA, PHIPPA, MFIPPA)
- SME - Cloud Access Security Broker (CASB) Technology; Cloud Risk Assessments
- SME - Expert knowledge of the Cloud Security Alliance (CSA) cloud controls
- SME - Enterprise Technology Architecture for complex multi-tier technology environments

Recent Consulting Engagements (August 2015 to present)

RBC Royal Bank - Senior Advisor, Digital and OMNI Channels
- Senior Risk Management Advisor to Royal Bank's key strategic initiatives in Retail Payments, Digital Transformation, Digital Marketing and Mobile.
- Consulting to RBC's digital transformation program (OMNI); performs assessments of the Agile transformation initiatives, working closely with Agile Scrum Masters, Business Product Managers, Technology Managers and Business Executive sponsors.
- Provides advisory services covered a broad range of E-Commerce technologies, E-Commerce and Mobile solutions
- Performs assessments and provide recommendations to Retail Banking business programs that address privacy, data retention, cyber security and business continuity

Scotia Bank - Senior Consultant, Enterprise Technology Operations
- Provided advisory consulting services for the bank's systems development lifecycle (SDLC) and expert advice on implementing secure business solutions.
- Provided guidance to internal business clients in completing security related documentation (data classification, risk/threat matrix, security design documents, and risk acceptance/deviation forms.
- Refined the detailed Foundational Technology Controls and Risk Assessment (TRA) methods for Amazon AWS, Microsoft Azure cloud services, as well as SalesForce SaaS solutions.
- Developed Risk Assessments that addressed the specification of security controls, identifying threats/vulnerabilities that needed to be addressed. Worked closely with vendors to identify and capture specific controls across various risk categories

Government of Ontario - WSIB Agency, Senior Management Consultant
- Planned and perform security architecture/design for WSIB's MS Office 365 cloud migration initiative; identified detailed security requirements and controls modelled on the CSA Controls Matrix. Updated security standards for Office365 and worked with project implementers to ensure successful phased cutover to Office365 environment.
- Provided Cloud Risk and Security Threat/Risk (TRA) assessment expertise by assessing WSIB's third parties and cloud services providers that store or process the bank's data, delivering on multiple technology review engagements. Provided advice regarding the selection and implementation of technology/security controls to mitigate risks identified.
- Team Lead / Technical Writer - Project to perform a gap analysis, review/refresh IT Modernization Program and Information Security Policies/standards. Working collaboratively with Corporate Communications, Legal, Privacy and IT departments, provided complete revision of Information Classification Model and associated handling standards/guidelines.

Prior Consulting Engagements (2015 and prior)

Senior Technical Project Manager - Ontario Power Generation (April 2015 - Aug 2015)
- Performed Project Manager and Security Architect lead role delivery for Ontario Power Generation's **cyber security initiatives**. These initiatives included Network Access Control (NAC) and Two Factor Authentication solution architecture and implementation planning.

<u>Senior Security Advisor - BCE/Bell Canada</u>   (June 2014 - March 2015)
- Provided **Website Governance** and **Cloud Security Governance;** leading the Cloud Discovery & Analysis initiative. Developed policy directives and contributed to process framework for establishing the Website/Cloud Governance program.
- Performed Cloud Risk Assessments, including solution evaluation and pilot project for **Cloud Access Security Broker (CASB)** technology. Evaluated Skyhigh Networks, Cipher Cloud among others. Provided cloud security risk assessment reporting to executive decision makers, including risk rankings, and recommendations for addressing identified 'high risk' cloud providers.
- Wallace also performed lead role in delivery of E-Commerce Vendor Risk Assessments, performing technical assessment of key projects by providing security oversight and feedback from the viewpoint of fraud management, and threat & risk identification. Delivered required artifacts and completed sign-off on Vendor/Third Party Service Reviews.

<u>Technology Risk Management Consultant - TD Bank</u>   (Sept 2013 - Feb 2014)
- Security Consulting Lead for Toronto Dominion Bank – Utilized detailed knowledge of bank policies and standards to guide security risk assessments based on TD's Enterprise Risk & Control Framework. Performed assessments on **TD's E-Commerce Delivery Channels (including Retail Banking ATMs)**, identifying and recommending mitigating controls.
- Monitored Payment Card Industry Data Security Standard (PCI-DSS) compliance against TD Bank's security control requirements, maintaining risk and control framework documentation using the bank's Archer eGovernance Risk & Compliance solution**.**

<u>Security & Fraud Management Practice Lead - Paladion Canada</u> (Sept 2012 - July 2013)
- Providing leadership for security compliance and fraud risk management practice development efforts for Paladion Canada (now Difenda) an established India-based IT Risk Management and Security Consulting firm www.paladion.net.
- Engagements included providing expertise in Fraud Risk Management, E-Commerce Security solutioning, and Cloud Security Architecture Assessments to client projects. Identified and delivered on security consulting engagements related to Security Compliance (engagement based on standards such as PCI DSS, ISO 27001)

<u>Government of Ontario - Senior Consultant</u>   Feb 2011 – June 2012
- Engaged on various technology assessment consulting assignments, performing IT Security Threat & Risk Assessment Services (TRA) on behalf of Corporate Security Branch (CSB) – consulting to various ministries/program clients as per CSB risk assessment mandate. Expert in the use of Federal Govt HTRA methodology for performing Threat and Risk Assessments and Statements of Sensitivity.

<u>AGRICORP Inc. - Senior Privacy & Security Consultant</u>   Jan 2009 – Dec 2010
- Hired on contract to provide Enterprise Security Architecture deliverables, and in addition to conduct a major Privacy Impact Assessment (PIA) for Agricorp's business and IT environment. Successfully delivered workshops and presented findings and recommendations to senior management, as well as to key Ministry stakeholders.
- Performed technology assessment & consulting role on specific initiatives as part of the Agricorp ITS project implementation process, and the Architecture Compliance Assessment process. These initiatives included MOSS SharePoint implementation, customer-facing Internet Portal, and Oracle/Seibel CRM planning. Applied the SABSA Security Architecture framework to delivery of artifacts and solutions
- Conducted and delivered to completion a detailed Privacy Impact Assessment for one of Agricorp's primary business applications; this involved both the identification, documentation and assessment of business process flows/data flows, as well as a detailed analysis of the technology components comprising the system.

HYDRO ONE Networks Inc. Senior Technology Consultant   Jan 2008 – Dec 2008

- Hired on contract as a senior consultant to perform network security strategy & planning, along with various regulatory compliance assessment initiatives including NERC CIP (working closely with outsourced service providers).
- Performed risk-based assessments with counterparts in Hydro One Critical Infrastructure Teams to collaborate on understanding and achieving compliance based on NERC CIP technology security requirements for public utilities.

SYMCOR Inc. -   Director and Chief Information Security Officer (CISO)   June 2004 - April 2007

- Senior Management role responsible for creation, development and leadership of an effective cyber security & risk management program, consistent with Symcor's strategic business plan.
- Planned and executed the delivery of security compliance initiatives that satisfied financial services compliance requirements (SAS70 and PCI-DSS compliance in particular)
- In the CISO role, Wallace represented the organization by chairing a multi-bank committee of client stakeholders (Canada's major banks), succeeded in reaching agreement on a set of working standards for **E-Commerce Electronic Cheque Presentment and Payment (TECP)**.
- Developed and led security audit and compliance initiatives, which addressed Truncation & Electronic Cheque Presentment (TECP), Payment Card Industry (**PCI DSS compliance** program**, SAS70 IT** Assurance program Initiated and lead review and assessment of Payment Card Industry (PCI DSS) compliance and reporting project on behalf of Symcor's client banks.

JOHNSON & JOHNSON - Senior Consultant   2004

- Senior Consultant – on contract engagement to **Jansen Ortho Pharmaceutical Inc.** (a Johnson & Johnson Company) to perform Project Management and IT Security & Audit Assessment for Sarbanes Oxley Compliance (SOX). All assessment work completed for the Business Solutions Centre on SAP Applications used by J&J Canadian companies.

Government of Ontario – Senior Consultant   2002 - 2003

- Requirements and Use Cases for an Electronic Bill Payment and Presentment (EBPP) Pilot Project
- Senior Enterprise Technology Architect responsible for Security, Privacy and IT Security Policy Implementation for the agency's enterprise IT initiatives.
- Provided leadership to a collaborative team comprising IT Systems and Network staff to develop and implemented a new security program framework, including a new enterprise security charter, revised policies and detailed standards.

GUARDENT CANADA Inc. (now Verisign) – Principal Consultant   2001 - 2002

- Consulting Practice Lead in the areas of Project and Program Management, business development, practice development, and creation of Technology and Risk Management Consulting deliverables.
- Developed over a six-month period a comprehensive, business-focused Information Security and Privacy assessment methodology - branded as Guardent Evaluation Methodology (GEM). This was co-developed with key customer CitiGroup in New York
- Performed comprehensive Secure E-Commerce and Technology Assessment for US-based **CommerceOne** and **Cypress Semiconductor** (both in California)
- Developed a detailed business case and comprehensive product evaluation for Public Key Infrastructure (PKI) and Secure Email for Thomson Financial Corp., including criteria and recommendations for PKI implementation

DELOITTE & TOUCHE LLP - Manager, e-Business Consulting   1999 - 2000

- Manager, e-Business Technology & Security Consulting - Senior Consulting role with a focus on Project Consulting, Business Development, e-Business & e-Government
- Developed several major proposals for D&T (including RFP responses), in some cases acting as team lead for proposal development

- Established very strong client relationships, including two major clients (Government of Ontario MBS and Toronto Dominion Bank) to Deloitte & Touche resulting in over $ 400K in revenue
- Senior resource on PKI business case development team for Bank of Montreal, focusing on vendor product comparison, status of global trust initiatives (including Identrus), and a PKI Insource vs. Outsource comparative analysis
- Senior resource working with lead technologists on an Enterprise Technology Architecture benchmarking project for Nortel Networks Inc.
- Project Leader & Technical Architect – Government of Ontario PKI Concept of Operations Project

BCE EMERGIS Inc. – E-Commerce Consultant   1999
- Project Consulting for BCE Emergis Electronic Bill Presentment & Payment Project Initiative
- Provided advice of Electronic Billing solution that would be integrated into BCE's Electronic Post Office offering (ePost/eBilling)
- Performed Internet-based Secure E-Commerce Risk Assessment, Network Security Architecture Evaluation and developed recommendations for a major Electronic Bill Payment initiative.
- Delivered to a consortium of six Canadian Banks, working with BCE Emergis to deliver the Pilot Project.

Government of Ontario - Consultant   1997 - 1998
- On contract to Management Board Secretariat, performed various consulting roles including Project Consulting, Security Architecture and Planning, Business Planning and Architecture for the Smart Card Services/Secure Client Access Project, primarily in the role of Technical Security Architect
- Planning and Strategy development for identification, assessment, design and development of applications for Smart Cards and PKI Certificates for use in E-Government Commerce initiatives.
- Systems Architecture and Security Design for the Client Registration Business; Strategic Planning related for re-engineering of Business of Registration services around new service delivery channels and models.
- Smart Systems for Health - Technical design and developing of Network, Messaging, Directory and Security 'lines of business'
- Primary deliverables included: Business requirements analysis; Business process modeling; Technology Architecture & Solutions; Financial Modeling and Technical Resource allocation; Business Plan creation and Technology Implementation Planning

Toronto Dominion Bank (TD Bank) - Analyst/Consultant   1996 - 1997
- Team Leader for Internet and Electronic Commerce Security Planning & Project Implementation, with responsibility for junior Security Analysts; Worked collaboratively with Inter-Networking Services, Multiple Lines of Business, Business Unit Project Managers and Senior IT Managers.

Professional Development / Continuing Education:

- CISM - Certified Information Security Manager Professional Designation
- CISA   - Certified Information Security Auditor Professional designation
- CISSP - Certified Information Security Professional designation

- University of West Indies (Cave Hill Campus) **-** Bachelor of Science (Natural Sciences)

- Harrison College (Barbados) - 4 Advanced Level Certificates; 9 Ordinary Level Certificates