

## Education

- **University of Phoenix** (Online)  
*Information Technology Program* Jun. 2003 - 2009
  - Relevant courses: Critical Thinking and Computer Logic, Fundamentals of Business System Development, Database Management Systems, Web programming
- **Mount Royal College** Calgary, AB  
*Project Management Certificate, CAPM Prep. (Final Paper: 87%)* Feb. 2001 - Aug. 2001
  - Relevant courses: Quality Management, Human Resources and Communications, Time and Cost Management, Risk and Procurement, Integration and Scope Management

## Work Experience

- **Hewlett Packard / ArcSight** Calgary, AB  
*Technology Consultant IV / Sr. Security Consultant* Mar. 2009 - Present
  - Assist customers throughout SIEM project lifecycle including strategy and planning, requirements gathering, design and architecture, implementation, and operations.
    - ”During Jays visit we were able to accomplish more than we have been in weeks ... He did an awesome job!” Fortune 500 Financial Services Customer
  - Verifying system functionality, performance testing, and documenting system benchmarks.
    - ”Had great confidence and appreciation in Jay for understanding our issues.” Large Health Care Supply-Chain Customer
  - Translation of advanced use cases to streamlined connector configurations, customized flex connectors and valuable system content.
  - Provided guidance and structure for many Security Operations Centre (SOC) projects of various sizes and responsibilities across a broad range of industries.
    - ”Very technically competent, well organized, with very good customer facing skills.” Large Energy Infrastructure Customer
- **Shaw Communications Inc.** Calgary, AB  
*Infrastructure Architect* Mar. 2008 - Nov. 2008
  - Designed next generation enterprise cloud architecture for agile development projects and SOA. Extensive research completed on grid computing, HPC computing, virtualization and IaaS (Infrastructure as a Service.)
  - In depth industry research. Education sessions and recommendations to the senior IT management and design teams.
  - Designed technical architecture for VMWare ESX/VI integration and upgrade with HP Blade Servers.

- Shaw Communications Inc.** Calgary, AB

• *Information Security Specialist* *Feb 2006 - Mar. 2008*

  - Directly recruited by the Senior Director of IT Operations to act as the principal Operations Security Analyst.
  - Key project technical lead for implementation of enterprise security event management system using ArcSight ESM, ArcSight Logger, and ArcSight NSM.
  - Technical lead special projects for IT Security and Compliance office including biometric authentication, e-mail content scanning and an enterprise class anti-spam solution.
  - Coordinated deployment of company-wide SSL VPN solution, including an "at home" call center workforce pilot.
  - Involved in developing and demonstrating Sarbanes-Oxley (SOX) compliance for financial and customer billing systems.
  - Authored and reviewed various security standards to support Shaw's corporate security policy.
  
- Terra Grain Fuels Limited** Regina, SK

• *Principal Architect and Implementation Specialist* *Aug. 2007 - Nov. 2007*

  - Design, planning and implementation of multi-site VPN architecture and highly available commodity trading and financial platform. (DBC SmartSoft)
  - Team lead for implementation. Planned and managed a quick and effective deployment scenario.
  
- Vertex Energy Limited** Calgary, AB

• *Principal Architect and Implementation Specialist* *May 2005 - Ongoing*

  - Migration of key applications from stand alone desktops to client server platform.
  - Implementation of VPN system to allow remote users in Saskatchewan to connect to a head office.
  - Negotiation with various vendors and suppliers to provide equipment and services.
  
- Direct Energy** Calgary, AB

• *Server and Infrastructure Specialist* *Jan. 2002 - Feb. 2006*

  - Technical lead in regional information security audit based on ISO I7799 standards (Code of Practice for Information Security Management) and ISC2 standards and guidelines.
  - Implementation of core gigabit network using Cisco hardware solutions at co-located IBM datacenter facility.
  - Design and implementation of 1X RTT Wireless SCADA/VPN solution for remote locations using Citrix and Cisco technologies.
  - Design and implementation of data integration software and scripts for billing data transport.
  - Demonstrated sound tactical decision making during data centre operations emergency during the Ontario 2003 power outages.

**"Jay demonstrated tremendous dedication, determination, and innovation."**  
Deryk King (CEO, Direct Energy)

  - Experience on a real time energy trading floor. High stress and high demand environment for IT support.

- Logicorp Datasystems** Calgary, AB

  - *Technical Analyst* *Jan. 2001 - Jan. 2002*

    - Repair and replacement for all models of Compaq, IBM and Toshiba laptops.
    - Deployed thin clients to entire large transportation corporation using Citrix and Compaq technology.
    - Experience working in medium and large companies (located in Calgary) providing support to internal IT teams.
- Pinion Microsystems Limited** Coronation, AB

  - *Systems Engineer* *Sept. 1999 - Jan. 2001*

    - Designed dynamic website for business using DHTML and Flash.
    - Locally administered NT4 networks for several small businesses.
    - Locally administered Novell based networks for several small businesses and the Coronation Composite High School.
    - Supporting several oil and gas industry remote locations (field offices).

## Technical Certifications

ArcSight Certified Technical Partner	2009
ArcSight Certified Advanced Integrator/Administrator (ACAIA)	2008
ArcSight Certified Integrator/Administrator (ACIA)	2007
SANS GIAC Security Essentials	2006
Brainbench Information Security Administrator	2005
GK Active Directory Design and Administration	2003
3Com Solutions Engineer	2001
CompTIA Server+	2001
CompTIA A+	2000
Microsoft Certified Systems Engineer (MCSE + IIS)	2000

## Security Clearance

Secret Clearance, Government of Canada (PWGSC)	2011
Volunteer Criminal Background Screening, Calgary Board of Education	2008
Reliability Status, Government of Canada	2008
Canada Wide Security Screening and Credit Check, Shaw Communications	2006
Criminal Background Check, Calgary Police Service	2005

## Speaking Engagements

Keynote, Annual AMIO Industry Luncheon (University of Calgary)	2006
--	------

## Skills

**Security Technologies:** IDS (Snort, SourceFire, McAfee Intrushield), DLP (Vericept, ASI DBProtect), Firewall (Cisco PIX/ASA/FWSM, Netscreen/Juniper, Linux IPTables, BSD PF), Web Proxy (Bluecoat, Microsoft ISA, Squid), Vulnerability Scanning, Assessment and Penetration Testing Tools (Tenable Nessus, Qualys, NMAP, Metasploit/NeXpose, Knoppix-STD, BackTrack)

**Languages:** C/C++, L<sup>A</sup>T<sub>E</sub>X, Ruby, PHP, Perl, HTML, Java, ECMA/JavaScript, VBScript, XML (Docbook), XSL (Docbook)

**Operating Systems:** Linux (Gentoo, Debian Variants, Red Hat Variants), Solaris, BSD, MacOS X (Darwin), HP-UX, AIX, OpenVMS, Microsoft Windows, JunOS, IOS/CatOS

**Applications:** OpenOffice, Microsoft Office, SmartDraw, ArcSight ESM, Allegro, Web Sense, AccuMap, VMWare, Oracle Financials, Snort (Sourcefire), Juniper SA Platform, Wireshark, Citrix, Xen, iWork

**Protocols/Industry Standards:** 802.1x, Wireless Ethernet (802.11), Infiniband, 10Gbs Ethernet, SQL, AJAX, REST, SOA, IaaS, Syslog, SNMP, CEF

**Miscellaneous:** software configuration management, strong verbal and written communication skills, excellent troubleshooting and debugging skills, exceptional problem solving skills, good team leadership skills

## Interests

**Academic:** quantum computing, cryptography/cryptanalysis, electrical engineering, reverse engineering, RF/wireless

**Sports:** swimming, video games

**Computers:** member of Gentoo security maintenance group, frequent beta tester, enjoy using and learning about "embedded Linux" systems, building electronics projects at home, and writing Rails web applications

**Musical:** percussion instruments and piano

**Other:** camping, wilderness hikes, amateur radio, photography