

Christopher Barhorst, MBA, CISSP, CCISO

Mobile: (864) 344-3514

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Profile:

Senior technology leader with 26 years of experience leading, designing and implementing secure technology. State Government leader in the organizational integration of secure technological capabilities.

Education:

- Pursuing, Ph.D. Executive Business Research, Virginia Tech
- Global Executive MBA, IE Business School, Madrid, Spain
- Cybersecurity: Managing Risk in the Information Age, Harvard University VPAL
- Bachelor of Engineering, Electrical Systems, Leeds Metropolitan University, UK
- Graduate Diploma, Security & Computer Forensics, Dublin City University, Ireland
- Graduate Certificate, Mathematical Sciences, Heriot-Watt, Edinburgh, UK

Commenced Ph.D. studies at Virginia Tech, Pamplin College of Business in June 2018. Research concentration in Business Information Technology: cybersecurity, security governance and end-user behavior. Quantitative track.

Teaching:

- Authored and presented classroom training on the topics of networking fundamentals, TCP/IP suite of protocols, IT security, network design and Cisco certification preparation for global clients such as NATO
- Professionally trained information technology lecturer

Professional Activities and Certifications:

- Chairman – SC Department of Revenue Technology Review Board
- Board member – SC State Security and Architecture Review Board (SARB)
- Chairman – SARB Networks and Hyper-Converged Subcommittee
- EC-Council Certified Chief Information Security Officer (C|CISO ECC05143511866)
- (ISC)² Certified Information Systems Security Professional - CISSP (540300)
- The Open Group Architecture Framework 9.1 - TOGAF 9.1 (78284)
- HIPAA Awareness for Business Associates Certified (November 14, 2017)
- HIPAA Security Certified (November 14, 2017)
- Cisco Certified Network Professional - CCNP (10155334)
- Cisco Certified Network Associate - CCNA (10155334)
- Cisco Certified Network Security Associate - CCNA-Sec (10155334)
- Cisco Certified Design Professional – CCDP (10155334)
- IT Leaders Alumni

Work Experience:

Department of Revenue, South Carolina – Chief Technology Officer (CTO) July 2018 - Present

Department of Revenue, South Carolina- Sr. Systems Architect (Level 10) June 2016 – July 2018

- Provide overall direction and leadership of DOR's Infrastructure Architecture across multiple business domains providing a coherent and consistent IT and security strategy
- Chairman of the SARB subcommittee on networks and communication technologies for the

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state of South Carolina

- Provide a secure infrastructure strategy and subject matter expertise in the design and development of solutions architecture
- Communicate the architectural strategy and status to key stakeholders highlighting changes and challenge resolutions
- Oversee, contribute and support the creation and maintenance of the appropriate logical and physical architectural artefacts and design collateral
- Lead the adoption of infrastructure and security architectural solutions adhering to defined standards and industry best practices. Collaborate on the generation of agency architecture policies, standards and procedures.
- Lead the evaluation of new products and technology in collaboration with application support and the security division ensuring suitability and fit within the end-to-end secure infrastructure solution
- Provide comprehensive consultation at the highest technical level to ensure architectural solutions adhere to best practices, processes and standards

Tesco Bank – Enterprise Network Architect – January 2016 – June 2016

- Define and update IT architecture standards, IT processes, SOPs and Work Instructions to improve efficiency of IT services
- Provide technical expertise of IT Networking, including but not limited to network architecture, security, WAN and LAN equipment, routing strategy for internal networks and external BGP routing and supporting network technologies
- Lead in the design and definition of enterprise network architecture
- Lead in the architecture definition integrating public and hybrid cloud architectures (AWS) hosting business critical financial applications
- Mentor and coach technical staff on design methodologies and best practice

Pulsant Ltd – Head of Networks and Security - May 2014 – October 2015

- Management, leadership and development of six direct reports and 70 indirect reports
- Operational ownership of all data center network and security operations across 10 UK based facilities and 6 international points of presence
- Operational sign-off of pre-sales design and requirements including requirements collection and solution definition
- Support for post-sales provisioning and developing the customer relationship
- Responsible for the approval, governance, successful implementation of all change throughout the digital platform
- Responsible for ensuring the correct operation and day-to-day operation of all networked services and service delivery
- Responsible for ensuring the correct operation and day-to-day operation of all networked services and service delivery
- Provide strategic leadership, technical expertise, team leadership and mentoring / coaching to the entire Network Operations and Engineering organization
- Manage incidents directly with clients to completion within defined SLAs

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- Escalate and liaise internally and with vendors, suppliers or partners where necessary
- Point of escalation for support teams and technical support of all faults, customer requests and issues
- Lead change, configuration, management and maintenance of networking hardware and software
- Ensure all support issues are managed, categorized and prioritized
- Collaborate with the CTO office to assist in the development of new services and product offerings

Accenture – Global Network Projects Team Manager – May 2012 – May 2014

- Leadership, management and development of a 40-member global team (on and offshore) of technology professionals
- Individual coaching, mentoring and career planning for direct reports and team members
- Executive and senior management interface to ensure successful strategic project planning and delivery
- Provisioning and capacity management of data center facilities including managing senior level escalations and requests requiring architectural standard modifications
- Management of change and project escalations to ensure stakeholders' expectations are not only met, but exceeded
- Expansion of change management and governance capabilities to meet the increasing demand and scale of effort required for effective control of change
- Designing and implementing transformational network architectures. Technologies included Cisco data and voice networks, F5 LTM and GTM load balancing and layered security solutions
- Technical design and oversight of three data centers providing global financial services
- Implementation of IP telephony solutions and voice-data network integration
- Development and implementation of the technical architecture and physical design, analysis of existing data networks and recommendation of solutions
- Strategic realignment of data networking team to provide more managerial contact to a growing base of team members in order to enhance team cohesion and communication
- Strategic allocation of resources to support business critical network systems
- Streamlined the equipment decommissioning process to identify the differing process and requirements for differing environments

Netcore Limited – Manager, Network Solutions Architect - June 2009 – April 2012

- Managed and coached technical staff to exceed client expectations
- Designed, implemented, and supported a wide range of remote connectivity solutions such as site-to-site VPN, token based client-to-network solutions and global wireless communication networks
- Designed and deployed a GETVPN solution over MPLS global network
- Designed and deployed Cisco wireless network covering the UK and Europe and integrated the deployment into the global solution
- Directed capacity planning, configuration consistency, redundancy preparedness and traffic engineering/management for several clients

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- Planned and directed network monitoring and consistency checking system to effectively manage overall use of IT resources. Upon implementation, overall downtime was reduced by 92% annually
- Consulting engagements included: Atos, Franklin Templeton Investments, NATO, Thomson-Reuters, Citi Bank, Saudi Telecom, BSKyB, T-Mobile, UK Environment Agency and Thus (Cable & Wireless)

OPNET Limited – Network Engineering Consultant - July 2005 – May 2009

- Modelling of communication networks for simulation of network expansion and modification to ensure proper performance post change
- Network troubleshooting and performance analysis via deep packet inspection (wire shark/ethereal)
- Customization of simulation platform to match the requirements of each specific client
- Automation of integrity and governance monitoring systems for large global enterprises
- Multi-tier enterprise application performance management and optimization
- Managed key personnel for large engagements in order to execute timely end-to-end implementations that were on time and budget
- Presentations to senior executives/board level in order to articulate advanced network features, benefits, and overall product solutions (one document was reviewed by the Office of the Secretary of State in the United States of America)

US Government Contractor (TS/SCI) – Network Engineer - Feb 1997 – Feb 2004

- Planned and implemented site-wide network modernization and expansion. Initially the network was composed of 50 systems interconnected by antiquated technology between 3 buildings. After the 3-year expansion was complete, on schedule, the network spanned 32 buildings and connected over 500 systems through a modern fiber optic campus backbone
- Designed and managed the installation of the site-wide fiber optic infrastructure
- Lead in the development and application of network design methods, theories and research techniques
- Strategic management of 15 network engineers

United States Air Force (Enlisted) – Honorable Discharge- Dec 1992 – Dec 1996

- Computer and network design and support for the United States Air Force
- Designed, installed and maintained deployable mission critical military data network infrastructure