

Christopher Keslar

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Summary

- Accomplished technology professional with extensive experience in software development, solutions and application architecture, and project and product management.
- Able to manage the evolving challenges of digital transformation collaboration and co-creation.
- Proven aptitude to direct business context investigation, consideration of stakeholders' perspectives, needs analyses, process modeling, and requirements validation and management.
- Successfully share complex data with experts and novice users.

Skills & Abilities

Database: Oracle, MS SQL, MySQL, Postgres, SQLite

Programming: PERL, Python, Java, SQL, C/C++, bash, PowerShell

Operating Systems: Windows, Unix (BSD, SysV), Linux (Ubuntu, CentOS, RedHat)

Virtualization/Cloud: VMware, OpenStack, AWS, Azure

Container Technology: Docker, Kubernetes

Methodologies: Agile, SDLV, ITIL

Areas of Expertise: Identity Management, Software Development, Systems Architecture, Enterprise Architecture, Strategy

Experience

INNOVATOR AND STRATEGIST

University of Pittsburgh | 2013 to Present

- Conceptualized and initiated strategic and technology plans that defined the mission of the technology organization to achieve objectives and formulate guiding principles for technology decisions.
 - Enhanced senior management decision making capabilities and boosted department's efficiencies by researching and reporting on technology and trends and how they relate the operation of the organization.
 - Organized and coordinated the first service portfolio for the IT department that is recognized as a core tool to help arrange services offered, track gaps, and facilitate the planning process.
 - Created departmental Vulnerability Management policy and process framework, and lead the cross departmental team tasked with implemented these throughout all areas within the central IT organization.
 - Drafted University policy for internet domain name and IP address management.
 - Designed and built a prototype mini-Science DMZ device that will allow isolated laboratory equipment to be securely attached the network.
 - Designed and proposed a Science DMZ architecture which resulted in an NSF award to build. Managed the project for the implementation.
 - Designed and built a technology education hub for a local youth center located in an under-served community.
 - Engineered a low latency network connection to allow multiple musicians across the country to collaborate and play with each other in real time. This effort received recognition by CENIC with their Innovations in Networking & Applications Performing Arts Award.
 - Coordinated a pilot of electric cars between Innov UEV and the University Parking and Transportation Office and Swanson School of Engineering.
 - Created Mobile App Challenge as an outreach program for students and the promotion of technology education.
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- Coordinated a University Senate Plenary to discuss and inform the faculty on Research Data Management, and its importance to both the individual researcher and the University. This effort went on to start a larger effort to define Research Data Management policy and procedure.
- Created a set of security standards for international travel, and an equipment loaner program to support faculty and staff who are travelling abroad.
- Conceptualized and managed the “Bright Ideas” program as a method to foster more innovative thinking in the central Information Technology Department.
- Wrote articles for University newspaper geared toward Faculty and Staff on technology issues and collaborated with marketing and communication department to ensure other technical articles were accurate and understandable by non-technical individuals.
- Prevent a large expenditure of development time and effort by using an off the shelf mass emailing solution rather than developing the service in house.
- Worked with University retail office to design the technology and technology hub to be built within the new University books store.

Technologies used in this position: *Python, Change Management, ITIL, PowerShell, Active Directory, AWS, Azure, 3d Printing, VR, MySQL, SQLite, Project Management, Research Data Management, Multifactor Authentication, Service Portfolio, Skype for Business, MS Teams, Vulnerability management, Linux, Ubuntu, gentoo, CentOS, Red Hat, Raspian, git, C/C++, Docker, Kubrenetes, Vulnerability Management, Team building, OIDC, IP management, SCCM, Apple DEP, gridFTP, Globus, JupyterHub, Jupyter Notebooks, IoT*

ENTERPRISE ARCHITECT

University of Pittsburgh | 2009 TO 2013

- Implemented a cloud storage solution for the University community based upon the Box.com service and integrated it with the campus single-sign on service.
- Architected the solution used for web single sign-on for the University including joining the InCommon trust federation to ensure interoperability with other entities with in the federation.
- Managed the smooth transition of the enterprise Spam and Virus email filtering service from Postini to Google Apps email filtering service.
- Created one of the most popular features of the University’s student portal system using opensource software to display news and announcement in a short time frame. Doing this prevented the need to develop a system of this type internally that would have required significant development time to be expended.
- Identity Architect for the University.
- Evaluated technology and architectural solutions for the University’s enterprise systems, services, and network.
- Had measurable cost reduction in University operation budget through initiative like switching from Verisign SSL certificates to Comodo SSL certificate that resulted in an annual savings of \$2 million dollars.
- Create Cloud Computing Guidelines for the University.
- Establish log retention policy, port audit, and others.
- Implemented a Roles Based Account Provisioning
- Various project lead included: establishing a Video Bridge service, iTunesU, PGP Wholddedisk Encryption, Help Desk Chat, Alumni Services, LabLines, as well as others.
- Created a notification subscription service based upon the underlying mass messaging system used for the University’s emergency notification system.

- Created Vision document for Research Computing at the University to be used by the CIO in setting the role the IT department should play in the Research Computing support and services.
- Developed Social Media roadmap for use by the Information Technology department to better communicate with our customers.
- Analyzed and recommended strategies for VPN solutions to be used for off campus access in order to eliminate the dial-in service resulting in a system with faster access and a reduced cost of \$250,000/year.
- Designed computer lab for the digital native students to better meet their needs and expectation and taylor4ed it to their changing usage patterns.
- Created the first mobile web strategy for the University which led to the creation of the University's first mobile website and app.
- Work to ensure compliance with those regulation pertaining to the University. These include relations such as FERBA, HIPPA, HEOA, and others.
- Liaison with the University's General Counsel for IT related issues—helping to educate and extract data as required.
- Headed and participated in various security and privacy related projects including detecting rogue device attach to the network, offering endpoint protection software such as Malwarebytes and Identity Finder to reduce the risk of data compromise and exfiltration.
- Create a pilot using a Virtual World to demonstrate the potential for it to be used as an effective instruction mechanism.
- Analysis of systems usage data and metric to for service capacity planning and deprecation when appropriate. This ensure users were able to access systems with out resource constraint and removed services that could not be financially justified.

Technologies used in this position: *SAML, Shibboleth, Identity Management, Identity and Access Management, H.323, Tomcat, SSL, X.509, WordPress, PHP, LDAP, shell scripting, bash, OAuth, OpenID, Android App Development, Java*

SYSTEMS ARCHITECT AND APPLICATION ARCHITECHTURE MANAGER

University of Pittsburgh | 2004 TO 2009

- Implemented first cloud service used by the central IT department to filer spam and virus laden email with an accelerated timeline.
- Designed and lead the implementation team to develop an emergency mass notification system.
- Created a middle tier architecture to facilitate system interoperability by using webservice to create and enterprise services bus.
- Led server and service consolidation to reduce the cost and minimize the risk posed to the University.
- Design and implemented a guest wireless access system to provide controlled access to the University network well preserving the identity of the guest.
- Planned, managed, and participated in project to upgrade various enterprise systems.
- Participated in the selection of the Residential Management System, installed and maintained it.
- Worked with the networking group to implement enterprise DHCP, enable 802.1x authentication on wired connections, and a system to identify who was using a network connection at any time.
- Refined automated provisioning system to have a finer grained access control of account creation within edge systems.
- Managed relations with the University's Medical Center for identity and directory information.

Technologies used in this position: DNS, DHCP, SQL, Agile, SDLC, Project Management, Software Development, Software Engineering, Windows, Linux, 802.1x

CEO AND FOUNDING MEMBER

Online Commerce Technology, LLC | 1999 to 2004

- Managed all aspects of running the company from budgeting and marketing, resource management, and actively interacting with clients.
- Managed a staff of IT consultants to service our clients from IT support to custom development.

Technologies used in this position: Budgeting, Billing, Marketing, IT Consulting, Network Design, Email server, File servers, LAN, WAN

INFORMATION TECHNOLOGY ENGINEER - MediaSite | 1998 to 1999

SYSTEMS ADMINISTRATOR - Storm Systems, LLC | 1998

FACILITIES AND OPERATIONS MANAGER - WiseWire Corporation | 1996 to 1998

PRODUCT MANAGER, AFS - Transarc Coporation | 1995 to 1996

UNIVERSITY OF PITTSBURGH - Systems Analyst | 1992 to 1995

Education

BACHELOR OF SCIENCE – COMPUTER SCIENCE | DECEMBER 1991 | UNIVERSITY OF PITTSBURGH