

Professional Experience Summary

Passionate, mission focused Sr. Systems Engineer with experience in a variety of technical and functional roles within the Intelligence Community, including Systems Engineering, Artificial Intelligence, Machine Learning, Software Development, and Enterprise IT. Proven ability to lead and architect complex systems, collaborate effectively with cross-functional teams, and manage product development activities to deliver solutions that enhance mission capabilities in support of National Security.

Highly skilled in designing, developing, and implementing scalable solutions in alignment with industry best practices.

Education & Certifications

Master of Business Administration – James Madison University

Master of Science in Telecommunications Engineering – George Mason University

Bachelor of Science in Networking and Security - University of Maryland, Global Campus



Professional Experience

Sr. Cloud Consultant / Sr. Customer Solutions Manager - Amazon Web Services, 09/2022 – Present

Responsibilities

- Architect and design industry leading solutions for large-scale Artificial Intelligence and Machine Learning projects, steering teams of data engineers, AI experts, data scientists, and cloud developers to advance data-centric innovation and strategy for mission users.
- Orchestrate comprehensive cloud migration and enhancement initiatives within AWS's secure, air-gapped environments, specifically tailored for the unique requirements of our national security clients.
- Design, develop, and implement cloud-native solutions and CI/CD pipelines while considering factors such as cost, performance, availability, and scalability to meet organization and mission requirements.
- Leverage DevOps methodologies & toolchains to automate infrastructure deployments through software development best practices.
- Collaborate with cross-functional teams to develop solutions to complex technical challenges while meeting mission requirements.
- Act as a liaison between end users and development teams to manage requirements and translate functional needs into technical specifications.
- Design systems in alignment with security best practices, accreditation standards and support Authority to Operate.
- Ensure compliance with IC standards and regulations by gathering compliance requirements and determining implementation plans.
- Develop and maintain product and architecture documentation including runbooks and user guides, testing plans, security evaluations, architecture diagrams, design documents, requirements backlog and traceability matrix, and briefings.

Tools and Techniques Leveraged for Success

- Amazon EC2, S3, RDS, VPC, Lambda, CloudFront, DynamoDB, IAM (Identity and Access Management), SNS, CloudWatch and other AWS services in Commercial, GovCloud, Secret and TS Regions
- Kubernetes, Docker, JIRA, Confluence, Amazon Web Services, Neo4j, Bloom, Microsoft Suite, GitHub, Git
- AWS Well-Architected Framework, NIST 800-53, Agile and Scrum best practices

Major Accomplishments

- Spearheaded the design and implementation of an innovative Advanced Analytics capability. Integrating AI/ML capabilities with automated data processing to curate insights from the customers Data Lake, harnessing both

unstructured and structured data within a graph database. Combining an intuitive interface that facilitates search, model assessment and Natural Language Processing.

- Executed several large-scale data center migrations to cloud environments, advancing to serverless infrastructures resulting substantial cost reductions and improved scalability for various national security agencies.
- Directed the development of various cutting-edge prototypes and proofs of concepts, which led to the generation of millions in revenue and expansion across new customers.

Senior Cloud Consultant and Development Lead/COO - 04/2019 – 09/2022

Responsibilities

- Led Software and Systems Engineering delivery teams of 5-30 comprised of Enterprise Architects, Developers, Quality Assurance and Automated Test Engineers, DevOps Engineers, Project Managers, and Data Architects.
- Managed the implementation and delivery of multiple low-code and cloud native applications across Federal Agencies.
- Served as conduit between technical team and customer to ensure Statements of Work and Federal Acquisition Regulation requirements are tracked and delivered upon.
- Developed and managed Program, Project, and Product Roadmaps to ensure all major phases, stages, and plans are developed, implemented, tracked, and communicated with cross functional teams and stakeholders.
- Briefed directly with corporate leadership and C suite executives to manage risks, issues, and ensure company core values, project management review metrics, and customer satisfaction metrics are being met.
- Collaborated with key Business Stakeholders and development teams to translate Business needs into technical requirements.
- Provided Agile mentorship across the team to ensure that Agile values are being fostered and Scrum Methodologies and the value of Sprint Planning, Backlog grooming, Sprint Review/Demos and Retrospectives ceremonies are actualized.
- Developed process models and performed business process re-engineering of core business processes to achieve improvements in productivity, cycle times and quality.
- Collaborated with Human Centered Design teams to review and design wireframes, mockups and incorporate customer and business needs into overall design reviews and decisions.
- Drove growth in collaboration with Sales, Lead Developers and Architects to ensure designs are reviewed, project milestones are met, designs and business requirements are validated, and business value was maximized to provide Demonstrations, Proposals and Value Propositions to customers.

Tools and Techniques Leveraged for Success

- JIRA, Confluence, Appian, ServiceNow, Amazon Web Services

Global Cyber Security Lead - 04/2017 – 04/2019

Responsibilities

- Led global diverse Cyber Security Engineering team to include Cyber Security Engineers, Administrators, Information Assurance Engineers, and Software Developers in Belgium, Netherlands, and the United States.
- Led the design, implementation, and iterations of the organization's security roadmap for future enhancements of enterprise Defense in Depth strategy.
- Developed and managed the organization's knowledge base of adversary tactics and techniques based on real-world observations to enhance the Security Operations Centers security posture.
- Responsible for leading the design and deployment of security capabilities to include, but not limited to, one-way transfer, security incident and event monitoring, network intrusion detection, network behavioral analytics, and multifactor authentication solutions.
- Designed and implemented new initiatives regarding cyber security, to enhance prevention, detection and investigation capabilities.
- Empowered the team to identify where and how daily tasks can be automated using agile development methodologies while ensuring timely delivery.
- Ensured administration of systems for adherence and alignment with Minimum Security Baseline Standards and provided preventative maintenance through regular patching and upgrades.

Tools and Techniques Leveraged for Success

- JIRA, Confluence, Splunk, Tanium, ServiceNow, Windows Active Directory, RedHat Linux

- Juniper STRM, McAfee EPO, Riverbed Profiler, Akamai WAF
- MITRE ATTCK Framework and Agile Alliance Agile Practices

Principal Systems Engineer - September 2013 to April 2017

Responsibilities

- Responsible for engineering and integration activities necessary to support the customer network and enterprise management tools.
- Developed cost estimates, conducted market research, and interfaced with vendors to provide product analysis based on engineering requirements.
- Modified and tailored tool configurations to include databases, front-end user interfaces, and the integration of COTS applications to meet evolving requirements, processes, and efficiency and enhancement efforts.
- Provided engineering/operations and maintenance support for customers' network devices, security appliances, and enterprise infrastructure.
- Managed the Information Assurance (IA) posture of the IT enterprise, to include applications, networks, circuits, enclaves, sites, infrastructure, and environments.
- Reviewed and developed documentation to support ongoing infrastructure changes and vulnerability assessments.
- Architected infrastructure drawings to include all physical and logical interconnects and baseline changes.
- Engineered/integrated, maintain, configure, patch/upgrade, and manage network and enterprise management tools for operations and engineering baselines.
- Conducted site surveys, developed site designs, CONOPs, test and implementation plans, to include translating customer requirements into circuit designs, material lists, labor and hardware cost estimates, and implementation schedules.
- Ensured all engineered installation designs meet the guidelines of "best practices", security requirements and the intent of the requirement.

Tools and Techniques Leveraged for Success

- JIRA, Confluence, ServiceNow, MS Project, HP OpenView, SolarWinds
- VMware Virtualization Suite, Windows Active Directory, Ubuntu Linux, Juniper and Cisco Networking, ThinClients
- Custom Fabricated RF, Laser and test equipment

Sr. Systems Engineer

United States Air Force, Chantilly Virginia, October 2007 – September 2013

Responsibilities

- Built credibility, established rapport, and maintained communication with stakeholders and managed multi-million-dollar IT implementation projects throughout their service lifecycle.
- Performed preventative maintenance inspections on RF and Satellite communication equipment.
- Provided training and mentoring for 23 employees to ensure ongoing job qualifications, wellness and growth targets were met.
- Performed network integration engineer function; operated and maintained 1,000+ communications circuits ensuring reliable command, control, and telemetry systems supporting IC reconnaissance satellites and classified government networks.
- Provided Tier 2 WAN/LAN support as necessary; perform installation of long-haul circuits and local area networks within a multi-vendor environment.
- Performed installation/removal of networking equipment at off-site customer locations having daily contact with multiple government agencies and other contract employees during the normal performance of duties.
- Established local policies and enforced standards to ensure service level agreements and contract requirements were met.
- Installed, troubleshoot, and supported enterprise infrastructure across multiple mission operating environments.
- Performed maintenance and inspections on secure local area networks, cryptographic equipment, and radio/satellite communications in a NATO coalition environment.
- Responsible for leading satellite migrations, frequency changes, and software, firmware, and hardware upgrades; to include Cisco VoIP, routers, and switches

Tools and Techniques Leveraged for Success

- JIRA, Confluence, ServiceNow, MS Project, HP OpenView, SolarWinds
- VMware Virtualization Suite, Windows Active Directory, Linux, Juniper and Cisco Networking