**Expertise and Capabilities**

# Leadership and Non-Technical Skills

* **Leadership**: motivation-focused community builder, inspiring mentor, empowering director of leaders and teams, cooperative servant leadership skills, behavioral interviewer
* **Organizational**: coordinator of events, partnership development, team, and volunteer organizer
* **Innovation**: entrepreneur, innovator, analytical and artistic vision, adaptable problem solver
* **Learning**: self-motivated learner, technology tinkerer, critical thinker
* **Collaboration:** strong oral and written communication skills, active listening, open-mindedness, and conflict-resolving

# Technical Skills

* **Cloud Computing**: Amazon Web Services (AWS- EC2, ECS, EKS, Route 53, S3, ASG, ALB), Microsoft Azure, Google Cloud Platform (GCP), Docker, Docker-Compose, Kubernetes
* **Methodologies**: DevSecOps, DevOps, Agile, Scrum
* **Virtualization**: VMware ESXi, Microsoft Hyper-V, VDI - Citrix, Horizons, Microsoft RDS
* **Operating Systems**: Windows Server (NT-2023), Linux
* **Directory Services**: DNS, MS Active Directory, LDAP
* **Web Servers**: Microsoft IIS, Apache, NGINX, WordPress
* **Collaboration**: Mattermost, Slack, BigBlueButton
* **Source Control**: Git, GitHub, GitLab
* **Database**: Microsoft SQL Server, MySQL, MariaDB, Cassandra, PostgreSQL, Neo4j, Graph
* **Scripting/Programming**: IaC, Python, Visual Basic, .NET, C++, Perl, Java, Javascript, Bash, Batch, PowerShell, LangChain, llama.cpp
* **AI:** LLMs OpenAI API, Llama3, Groq, Claude, OpenLLM, LM Studio, Ollama, Phi-3, AI Agent Programming, CrewAI, RAG, embedding
* **Applications**: Word, Excel, PowerPoint, Visio
* **Infrastructure Hardware**: HP/IBM/Dell Servers/Storage Arrays, NetApp filers
* **Data Center:** Data Center and Rack architecture, Remote Hardware Management Solutions, Data Center Resource Management, Data Center Migrations
* **Networking:** TCP/IP, Firewalls, Routing, Switches, VPC, VPN, Gateways, Wireshark, Wireless

# Certifications, Training, and Education

* AWS Certified Developer - Associate
* Essentials of People Management
* ITIL v3 Foundations
* Agile Project Management Fundamentals
* Technical presentations for Executives
* Toastmaster International Competent Communicator and Competent Leadership training
* DoD Top Secret Clearance - SCI eligible (2006 - 2021)
* Baldridge Business Practice Training at K&N Management - The Love of Excellence
* Technical Recruiting and Behavioral Interviewing Training
* University of Texas at Austin - Computer Science, Bachelor of Science degree plan

**Professional Experience**

# Leadingbit Solutions, Inc. - Austin, Texas (03/2021 – Present)

***Director of IT Infrastructure and Operations / Solutions Architect / CTO***

* Architected and implemented Open Source platform architecture across AWS and GCP, reducing operational costs by 30%
* Spearheaded research and development in open source large language models (LLMs) agent development and integrated these capabilities with open source tools, enhancing platform functionality and user experience
* Fostered a culture of innovation and continuous learning within engineering teams, driving a 40% increase in deployment efficiency
* Established security practices and compliance frameworks, ensuring 99.9% reliability of cloud infrastructure
* Collaborated with cross-functional teams to align technical resources with business needs, promoting technology transformations and Open Source innovation
* Provided regular updates and insights to executive leadership, informing strategic decision-making
* Develop automated deployment and system updating architectures, cost-optimizing AWS resource use and ensuring security compliance
* Direct project and operational management to align with organizational goals, boosting customer satisfaction and process efficiency
* Develop technical roadmaps and policies for IEEE SA OPEN Technical Advisory Group to enhance community collaboration and support open-source development
* Implement technology roadmap, aligning technical resources with business needs and promoting technology transformations
* Manage diverse, global teams, promoting collaboration, innovation, and skill development; engaged in community forums and technical presentations at industry events
* Engage in public speaking and advocacy, highlighting the role of technology in open-source platforms and community collaboration
* Build and maintain productive partnerships to support growth and community development through effective communication strategies
* Led and contribute to open-source community projects, driving innovation and security in software development

# BAE Systems, Inc. - Austin, Texas (07/2008 – 03/2021)

***Enterprise Cloud Services Operations Director*** (*03/2012 – 03/2021)*

* Managed global cloud services and virtualization IT operations, optimizing compute resources across three datacenters and 50+ remote sites.
* Developed and mentored a team of 15 professionals, including managers, architects, developers, and system administrators, fostering technical skill development and career growth.
* Architected data access governance solution, securing and auditing unstructured data across all lines of business
* Led the upgrade of 1500 Windows 2003 servers, resulting in successful security and compliance audits
* Provided strategic leadership for cloud operations technology, defining hybrid-cloud transformations with AWS and Azure.
* Developed Cloud Services Enterprise technology roadmap, achieving data center objectives with automation and monitoring solutions
* Forecasted and managed yearly budget expenditures exceeding $2M of CapEx and OpEx for operations and capacity planning
* Achieved $25K annual savings through enterprise Citrix support partnership, upgrading 800+ Virtual Desktops and XenApp Citrix licenses
* Transformed a software vendor relationship into a partnership, saving $217K in project costs and $43K annually in support
* Led the upgrade of 1500 Windows 2003 servers, resulting in successful security and compliance audits
* Designed an enterprise-wide system maintenance process, saving over $600K annually with minimal user disruption
* Directed Data Center relocation from Herndon to Austin, saving $4.5M in IT operating costs
* Deployed a Distributed Enterprise File Services Solution, saving over $500K in NetApp and Commvault costs
* Initiated "Great Place to Work" and "Diversity and Inclusion" events, boosting morale and participation by 70%
* Received Impact Award for regional data center infrastructure upgrades, Bronze Chairman Award for internal live broadcasting solution, and Difference Maker and Pathfinder Award for shared strategic assessment
* Architected enterprise DevSecOps solution and designed CONOPS for operational integration

***Senior Principal Systems Engineering Supervisor-Enterprise Operations Manager*** (*07/2008 – 03/2012)*

* Managed Cloud Services projects, resolving critical issues and outages across the enterprise
* Automated processes in Windows and VMware environments using multiple scripting languages
* Administered Active Directory, enhancing security and functionality with login scripts, OUs, GPOs, and DFS
* Managed secure environments for Top Secret classified data, including Windows and Unix Servers, storage, networks, and desktops
* Received Safeguard Recognition Award for combating Advanced Persistent Threats during a major cybersecurity compromise
* Awarded for Virtualization Environment Upgrade Project improving unmanaged virtual environments at remote sites
* Earned Exceeding Service Levels Recognition Award for surpassing service and project deadlines with high customer satisfaction
* Honored with the Data Center Consolidation Achievement Award for the successful consolidation of sites into regional data centers
* Led Infrastructure Printer Services Project, winning an award for designing and implementing virtual Print Services for Electronic Systems
* Received Impact Award for regional data center infrastructure upgrades, Bronze Chairman Innovation Award for AV Internal Live Broadcasting Solution, and Difference Maker and Pathfinder Award for Shared Strategic Assessment

# Computer Sciences Corporation - Austin, Texas (03/1998 – 07/2008)

## *Senior Principal Computer Scientist & Solutions Architect* (03/1998 – 07/2008)

# Led IT teams of 6-13 engineers, developing solutions for clients in various sectors

# Facilitated IT outsourcing onboarding, translating client needs into software and hardware solutions

# Conducted due diligence and gap analysis for accurate new business contract proposals

# Implemented MS Windows Server solutions, meeting SLA terms within tight deadlines

# Developed IT solutions for clients in banking, insurance, chemical energy, government, and defense sectors across North America

# Directed IT Red Teams to address escalated issues, enhancing customer satisfaction

# Ensured compliance with contracts to avoid financial penalties

# Presented technical solutions to executive leadership, supporting organizational goals

# Provided on-site MS Windows Server support, fulfilling CSC contractual commitments

# Led Project Management Office and IT Red Teams in resolving process issues for clients

# Served as Team Leader, enhancing system efficiency through MS Windows Host Servers installation and migration

# Supported Equiva and Texaco data center migrations through server and application consolidation

# Designed cost-effective data and application service migration plans to CSC data centers

# Led enterprise deployments and maintenance for Financial Services Group software development

# Volunteering and Community Projects

* IEEE SA Open Security lead and Technical Advisory Group member (2020-2023)
  + Worked with a team of IEEE technical resources, architects, developers, project managers, and volunteers
  + Contributed to the design and implementation of IEEE SA Open Community Platform and DevOps
  + Led the open source security community focused on securing open source software and operations
  + Led the design and implementation of test versions of the IEEE SA Open platform using IaC
  + Maintained CI/CD pipeline for the project deploying as a web application hosted in GitLab-pages
* Member of Defense Industrial Base (DIB) Sector Coordinating Council Cyber Task Force - Supply Chain DRM Work Group (2019-2021)
* BAE Systems representative to the Society of Hispanic Professional Engineers (SHPE) (2017)
* School of Business & Technology at Huston-Tillotson University Board Member (2016)
* Agile Austin (2013)