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Profile Summary

Chief Technology Officer | Strategic Technology Leader | Open Source Champion

Innovative technology leader with 7+ years of experience in open source, cloud computing, and advanced AI/ML techniques. Proven track record in managing cross-functional teams, developing technical roadmaps, and driving innovation in cloud-based and AI environments. Skilled in aligning technology strategies with business objectives and fostering community engagement in open source projects. Active contributor to open source communities and speaker at industry conferences.

Key Qualifications

- 15+ years of technical program management leadership experience in cloud computing and open source environments
- Extensive experience managing programs across cross-functional teams, building processes, and coordinating release schedules
- Advanced hands-on experience with AI/ML tools, platforms, and pipelines, including the development of LLM-integrated applications and Generative AI models
- Familiar with advanced neural network fine-tuning techniques for optimizing model performance
- AWS Certified Developer - Associate
- Strong background in project management disciplines, including scope, schedule, budget, quality, risk, and critical path management
- Proven ability to contribute to open source communities and lead open source initiatives
- Active involvement in open source conferences and community building

Technical Skills

Cloud Computing: AWS (EC2, ALB, ASG, ECS, EKS, Route 53, S3, Lambda, CloudWatch), MS Azure, GCP, Docker, Kubernetes, DevSecOps; **Virtualization**: VMware, Hyper-V, VDI - Citrix, Horizons, MS RDS

Operating Systems: Windows Server (NT-2023), Linux; **Directory Services**: Active Directory, LDAP; **Web Servers**: MS IIS, Apache, NGINX;

Collaboration: Mattermost, Slack, BigBlueButton; **Source Control**: Git, GitHub, Gitlab; **Database**: MS SQL, PostgreSQL, MySQL, MariaDB, Cassandra, DynamoDB **Scripting/Programming**: Bash, Python, Visual Basic, .NET, C, C++, Perl, Kixtart, Batch, PowerShell; **Web Content Management**: Drupal, WordPress; **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 Migration; **Help Desk Software**: ServiceNow **DevOps & IaC**: Docker, Kubernetes, Terraform, Ansible, GitLab CI/CD **AI/ML:** LLMs, OpenAI API, RAG, embeddings, Langchain, CrewAI

Professional Experience

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

Cloud Solutions Architect / CTO

- Led development and execution of open source strategy, enhancing product impact and community engagement
- Managed diverse, global teams of engineers, developers, and project managers, fostering collaboration and innovation
- Developed technical roadmaps and policies for IEEE SA OPEN Technical Advisory Group, improving community processes and open-source development
- Designed and implemented open source platform architecture using AWS and GCP, improving operational efficiency by 30%

- Spearheaded research and development in open source large language models (LLMs) and Generative AI, enhancing platform functionality
- Created automated deployment architectures using Infrastructure as Code (IaC), optimizing AWS resource utilization
- Maintained CI/CD pipelines and implemented security audits for production environments
- Developed agentic LLM open source grant assistant, integrating it into the Open Source tools platform
- Implemented and optimized Generative AI models using Automatic1111, ComfyUI, and InvokeAI with various StableDiffusion models, Flux, and SDXL
- Applied advanced neural network fine-tuning techniques, including Low-Rank Adaptation (LoRA), Textual Inversion, and Hypernetworks, to optimize model performance and extend generative capabilities
- Authored a series of blog posts and LinkedIn articles on AI LLM development progress and Generative AI advancements

Open Source Contributions

- Developed and open-sourced AWS resource deployment scripts on the Foundation for Open Source Ecosystem Technology (FOSET) GitLab server for deploying containerized GitLab, Mattermost, BigBlueButton, Matomo, and Xwiki
- Created agentic AI programs using Langchain and CrewAI, open-sourced on FOSET GitLab
- Led integration of open source LLMs into the IEEE SA OPEN platform
- Active contributor to various open source projects and communities, including AI/ML, Generative AI initiatives, and Neural Scanning research projects

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

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

- Managed Cloud Services and virtualization operations across three data centers and 50+ remote sites
- Led teams of up to 15 IT professionals, including architects, engineers, and operations administrators
- Developed and implemented operational roadmaps supporting enterprise-wide technology adoption
- Architected enterprise solutions for data access governance and DevSecOps implementation
- Led cloud operations technology for External Cloud Foundation Project, defining hybrid-cloud transformation strategies using AWS and Azure

IEEE SA Open

Security Lead and Technical Advisory Group Member (Volunteer) **(2020-2023)**

- Led open source security community focused on securing open source software and operations
- Contributed to the design and implementation of IEEE SA Open Community Platform and DevOps practices
- Designed and implemented test versions of the IEEE SA Open platform using Infrastructure as Code
- Maintained CI/CD pipeline for web application deployment hosted on GitLab pages

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

- Managed Cloud Services department's projects and resolved mission-critical issues and outages impacting the enterprise
- Automated processes and procedures utilizing multiple scripting languages, maintaining Windows and VMware environments
- Managed Active Directory utilizing login scripts, OUs, GPOs, and DFS to maintain and secure the environment
- Managed closed Top Secret classified environments and data spills with secured Windows Servers, Unix Servers, storage, network, and desktops
- Safeguard Recognition Award Recipient: Fighting Advanced Persistent Threats for Major Cyber Security Compromise

- Virtualization Environment Upgrade Project Recognition Award Recipient: Upgrading the Unmanaged Virtualization Environment at Remote Sites
- Exceeding Service Levels Recognition Award Recipient: Awarded for Consistently Exceeding Service and Project timelines with the highest customer satisfaction
- Data Center Consolidation Achievement Award Recipient: Completion of Data Center Consolidation of multiple sites into Regional Data Centers
- Infrastructure Printer Services Project Award Recipient: Spearheaded project and managed team members with the design and implementation of virtual Print Services for Electronic Systems
- Spearheaded Enterprise Deployments and system maintenance to support Financial Services Group software development

Speaking Engagements & Community Involvement

- Presenter on Platform Engineering, OpenUK State of Open 2023, London
- Speaker at OSCON and InnerSource Commons
- Active participant in open source conferences and community events
- Established connections with numerous open source communities

Volunteering and Community Projects

- IEEE SA Open Security lead and Technical Advisory Group member (2020-2023)
  - Work with a team of IEEE technical resources, architects, developers, project managers, and volunteers
  - Contribute 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
  - Lead the design and implementation of test versions of the IEEE SA Open platform using IaC
  - Maintain 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)
- Austin Agile (2013)
- Technical Steering Committee Lead - Foundation for Open Source Ecosystem Technology (FOSET) (2023)

Education, Certifications, and Training

- AWS Certified Developer - Associate
- Technical presentations for Executives
- Essentials of People Management
- ITIL v3 Foundations
- Agile Project Management Fundamentals
- 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
- Studied at the University of Texas at Austin - Computer Science, Bachelor of Science degree plan (1993-1995)