Patrick R Hughes

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SUMMARY

Solutions Architect with 9 years in government, military, and private sectors, specializing in Azure, DevOps, AI, and cloud. Expert in scalable architectures, IT optimization, and AI/ML integration. Passionate about automation and innovation.

EXPERIENCE

System Engineer
OneOncology LLC   **February 2024 – Present, Nashville, TN**

· Architected and deployed scalable, secure Azure cloud infrastructures for multiple organizations, ensuring robust foundations for AI and machine learning solutions.
· Spearheaded DevOps and AI initiatives at OneOncology, crafting CI/CD pipelines and utilizing Terraform for seamless deployment of web and function apps, aligning with AI-driven objectives.
· Proficient in AI development and scripting, leveraging Python, JavaScript, TensorFlow, and PyTorch to create advanced AI-driven solutions, including agentic AI systems and RAG architectures.
· Acted as a trusted technical advisor, leading proof-of-concept (POC) developments and technical demonstrations, driving AI adoption and integration.
· Designed and maintained efficient data pipelines with Slack, ensuring cost-effective cloud resource management and optimal model performance.
· Collaborated with cross-functional teams to deliver comprehensive AI solutions, effectively communicating complex technical concepts to diverse audiences.
· Continuously researched and integrated cutting-edge AI techniques and technologies, contributing to the development of industry best practices and standards.

System Engineer
Smyrna Ready Mix   **March 2021 – February 2024, Nashville, TN**

· Migrated 1,500 users from Exchange 2010 to Office 365 Hybrid.
· Stood up Azure Cloud and architected a solution for 70 concrete trucks to print tickets and optimize workflow.
· Configured 100+ networks from scratch for seamless operations.

SharePoint Developer
TN Air National Guard   **July 2019 – October 2021, Nashville, TN**

· Managed a SharePoint platform for 1,200 personnel, improving collaboration.
· Resolved 100+ technical issues, saving the DoD $8K in support costs.
· Maintained $50K in IT equipment, reducing downtime by 50 man-hours.

Systems Administrator
C-Spire | Formerly Teklinks   **July 2017 – August 2018, Franklin, TN**

· Managed IT infrastructure for 50+ businesses, ensuring uptime, optimizing performance, and providing 24/7 support..

Systems Analyst
Benton County Board of Education   **September 2015 – July 2017, Camden, TN**

· Installed and maintained IT infrastructure, including network cabling, servers, and Wi-Fi for 300+ users..

EDUCATION

Bachelors of Science in Computer Science
Minor in Web Development · Austin Peay State University · Clarksville, TN · 2018

Associate of Science
Minor in Computer Networking · Jackson State Community College · Jackson, TN · 2016

CERTIFICATIONS

Azure Solutions Architect Expert
Microsoft · 2024
· **Architects scalable Azure solutions, deploys AI/ML models, and translates business needs into technical architectures.**

SKILLS

Azure, Terraform, DevOps, AI, Machine Learning, Python, Networking, Security, Automation, PowerShell, CI/CD, Cloud, Infrastructure, Risk Management, Project Management, Leadership, Analysis, Strategic Planning