SAFAN ABBASI

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EDUCATION

University of Houston | *Bachelor of Science, Computer & Electrical Engineering* | **GPA: 3.94**

Certifications: AWS Cloud Practitioner • AZ-104 Azure Administrator Associate • AI-900 AI Fundamentals • AZ-900 Azure Fundamentals • Chevron API Dev Course • SAFe 5 Agile Practitioner

TECHNICAL SKILLS

Programming: Angular • React • Python • Ansible • C/C++ • .NET/C# • Java • JavaScript • HTML/CSS • PowerShell • Bash • Typescript • Node.js • Terraform • TensorFlow
Software: Artifactory • Azure • Azure DevOps • GitLab • Grafana • Nginx • Prometheus • Postman • Palo Alto Prisma Cloud • ThousandEyes • Visual Studio Code • ServiceNow
Infrastructure/Database: Docker • Kubernetes • Azure Container Apps • Windows • Unix/Linux • SQL • NoSQL • PostgreSQL
Tools/Methodologies: CI/CD Pipelines • Git • Agile • DevOps • Infrastructure as Code (IaC) • Software Development Life Cycle (SDLC) • SOLID Principles • Rest API • OpenAPI

PROFESSIONAL EXPERIENCE

Chevron – *Lead Software Engineer;* Houston, TX *2023 – Present*

- Designed and deployed Kubernetes (AKS) and Docker applications to securely ingest and encrypt sensitive data across Chevron's segmented network into Azure to enable critical insights for leadership across Chevron.
- Integrated **10+** Azure monitoring services with **4** 3rd party SaaS solutions via coding Ansible playbooks, PowerShell scripts, and C# Azure function apps to create a full end-to-end monitoring and alerting ecosystem for all applications and infrastructure across Chevron.
- Led and developed a team of **6** developers and analysts on improving migrations, auto remediation scripts, and system integrations using various tools including PowerShell, C#, Ansible, Rest APIs, and Kubernetes.
- Developed reusable Angular components, supporting **500+** web developers across Chevron.
- Developed policy-as-code solutions using Ansible, Azure Policy, and PowerShell to enforce and auto remediate installation of monitoring agents and software across **18000+** Windows and Linux machines, improving compliance by over **60%.**

Chevron – *Software Engineer;* Houston, TX *2020 – 2023*

- Developed and maintained **30+** Ansible roles for deploying **20000+** Azure cloud infrastructure resources (VMs, container services, load balancing services, etc.) across the enterprise using IaC best practices, allowing faster, more secure, and higher deployment success rate of all cloud applications **by over 100%**
- Trained and led a new team of developers and analysts in maintaining and enhancing Artifactory application that **4000+** CI/CD pipelines and clients globally depend on, improving the stability of the application by **over 25%,** increasing the speed of code enhancements by **50%**, and boosting an **over 100%** faster response time in resolving customer issues.
- Created Python scripts, C# functions, and Ansible playbooks to integrate enterprise container services with a 3rd party SaaS container security platform, enabling real-time vulnerability detection, compliance enforcement, and remediation before and after container deployment.
- Built **4** big data pipelines with Azure Data Factory to ingest cloud expense data to SQL for cost optimization analytics, resulting in **$10M in annual IT savings** and aligning with Chevron's cost-reduction initiatives.

Outlier AI – *AI Prompt Engineer;* Flexible Part-Time Remote *2024*

- Engineered, tested, and optimized prompts for **LLM-based agents** across 5+ enterprise clients to enhance response accuracy and contextual relevance. Collaborated on evaluating hallucinations, prompt chaining, and real-time agent workflows for production-ready AI systems.

PATENT & ACHIEVEMENTS

***NASA Co-inventor, Patent No: US12174259B1*:** Laser-Based Method for Triggering Thermal Runaway of a Battery *2024*

- Contributed to the core technical approach and fine-tuned testing parameters to achieve optimal results. Supported the project from concept through issuance, resulting in a granted patent. **https://tinyurl.com/safanpatent**

Computer Vision Parking System – *Project Lead* *2019 – 2020*

- Generated outdoor parking availability data using Python, TensorFlow, and a trained neural network (CNN) model on parking lot datasets, showcasing the benefits of a full-scale smart outdoor parking system at the University of Houston