

SAFAN ABBASI

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TECHNICAL SKILLS

Programming: Angular • React • Python • Ansible • C/C++ • .NET/C# • Java • JavaScript • HTML/CSS • PowerShell • Bash • Typescript • Node.js • Terraform

Software: Artifactory • Azure • Azure DevOps • Copilot Studio • Grafana • Power Automate • Postman • Prometheus • Visual Studio Code • ServiceNow

Infrastructure/Database: Docker • Kubernetes • Azure Container Apps • Windows • Unix/Linux • SQL • NoSQL • PostgreSQL

Tools/Methodologies: CI/CD Pipelines • Cursor • Git • GitHub Copilot • Agile • DevOps • Infrastructure as Code (IaC) • SOLID Principles • Rest API

PROFESSIONAL EXPERIENCE

Chevron – *Lead Software Engineer*; Houston, TX

2023 – Present

- Engineered C# libraries and Angular interfaces for real-time well performance monitoring and optimization, enabling data-driven actions for petroleum engineers that **generated millions in additional production value**.
- Built SQL stored procedures powering Petex IVM dashboards for **1,000+ wells**, delivering real-time production insights that helped engineers optimize wells and leadership direct multi-million-dollar investments.
- Developed and maintained RESTful .NET API endpoints in Azure Function Apps, automating logging of 100+ applications and eliminating **2000+** hours of manual work.
- Designed and deployed Kubernetes (AKS) and Docker-based applications in collaboration with Microsoft to securely ingest sensitive data across Chevron's segmented network into Azure, enabling critical insights for executive leadership.
- Built reusable Angular components, supporting **500+** web developers across Chevron and increasing web development speed by **10%**.
- 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

- Built backend workflows using **Python and C#** to integrate enterprise container services with SaaS-based security platform, enabling policy enforcement and automated vulnerability remediation.
- Trained and led a new team of developers and analysts in maintaining and enhancing the Artifactory application, which **4000+** CI/CD pipelines and clients globally depend on. Improved application stability by **25%**, increased code enhancement speed by **50%**, and achieved a **100%** faster response time in resolving customer issues.
- Built **4** big data pipelines with Azure Data Factory and SQL to process large volumes of cloud expense data, enabling optimization analytics that drove **\$10M** in annual IT savings.
- 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 a **90%** higher deployment success rate of all cloud applications.

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.

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.

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