SAFAN ABBASI

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TECHNICAL SKILLS

AI & LLM Systems: RAG Pipelines, Model Context Protocol (MCP), OpenAI/Gemini APIs, ChromaDB**,** GitHub Copilot, Claude Code

Programming: C#/.NET, Python, Rust, C++, JavaScript, React, Angular, Vue, HTML/CSS, Ansible, Terraform, Bash

Data & Infrastructure: Azure/AWS/GCP, SQL Server, PostgreSQL, Grafana, Docker, Kubernetes (AKS)

Tools & Technologies: Redis**,** Git, Rest APIs, JWT/OAuth2, FastMCP, FastAPI, GitHub Actions, Azure DevOps

PROFESSIONAL EXPERIENCE

Chevron – *Full-Stack Software Engineer;* Houston, TX   *2023 – Present*
- Architected and deployed an enterprise knowledge intelligence platform integrating the Confluence API with **a vector-indexed RAG pipeline, enabling semantic search, contextual Q&A**, and automated cleanup of **2000+** stale documents.
- Generated **$50M** in additional production value by engineering a real-time well performance platform using .NET and Angular**; integrated OpenAI models** to enhance optimization recommendations, boosting average production by **10%**.
- Accelerated developer velocity by **10%** for 500+ engineers by creating a shared library of reusable Python modules and Angular components, improving and standardizing code quality across the organization.
- Eliminated **2,000+** hours of manual labor by developing .NET API endpoints on Azure Function Apps to centralize and automate logging workflows across 100+ applications**.**
- **Accelerated feature delivery by over 30% for the team** by leading GitHub Copilot adoption**;** established prompt engineering standards and automated code-accuracy audits to ensure high-quality production.
- Built SQL stored procedures powering dashboards for **1,000+ wells**, delivering real-time production insights for engineers to optimize wells and leadership direct multi-million-dollar investments.

Chevron – *Software Engineer;* Houston, TX   *2020 – 2023*
- Engineered a resilient data ingestion pipeline using Azure Kubernetes Service (AKS) and Azure Monitor Edge to extract data from segmented field networks, enabling real-time decision-making for executive leadership.
- Automated enterprise vulnerability remediation by building Python/C# backend workflows that integrated container services with SaaS security platforms, ensuring strict policy enforcement.
- **Boosted feature delivery speed by 40%** by leading the modernization of the enterprise Artifactory application; increased stability by 25% of **4,000+** global pipelines and reduced customer issue resolution time by **50%.**
- Built large-scale pipelines with Azure Data Factory (ADF) and SQL to process petabyte-scale cloud cost data, driving **$10M** in annual IT savings.

PATENT & PROJECTS

AI Prompt Generation & MCP Server   *2025*
- Architected a containerized codebase analysis platform (Python, FastAPI, Docker, Gemini) generating deterministic, full-repository prompt artifacts for LLM debugging and refactoring.
- Built an MCP-compliant server using FastMCP exposing schema-validated codebase and git inspection tools to Claude Desktop, enforcing controlled subprocess execution with path restrictions and execution timeouts.

Bookkeeping Automation App   *2025*
- Engineered a full-stack app using Azure AI Document Intelligence and GPT-4o mini to parse financial statements and produce detailed reports, reducing manual effort by **80+** hours per client.
- Implemented multi-threading, batching, and asynchronous operation to speed up solution by **1000%** and reduce API costs by **90%**.

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**

EDUCATION

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

Certifications: AZ-104 Azure Administrator Associate, AI-900 AI Fundamentals, AZ-900 Azure Fundamentals, AWS Cloud Practitioner