

Tyler Hudson

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SUMMARY

Experienced I.T. Technician & Cloud Lead with 6 years at Hudson I.T. Consulting LLC. Proven track record in designing and managing **network** infrastructures, enforcing cyber compliance, and leveraging cloud platforms like **AWS** and **Azure** to enhance system efficiency and performance for a diverse client base. Skilled in providing technical consulting services and implementing tailored solutions that optimize **network** performance and security.

PROJECTS

Dad Joke Provider: A Kubernetes Microservices Project

Personal Project • tylerkhudson.com//dadjoke-provider/ • March 2024 - Present

- This project implements a Dad Joke Provider as a microservices application deployed on a **Kubernetes** cluster.
- The application consists of three **containerized** services (Joke Service, User Service, and API Gateway) managed by **Kubernetes**, demonstrating key concepts such as deployments, services, and pod **management**.
- The **Kubernetes** cluster provides a scalable and manageable environment for the application, allowing for easy updates, scaling, and **monitoring** of the microservices architecture.

Deploying a Secure Messaging Application

Hudson I.T. Consulting • tylerkhudson.com//deploying-secure-message-app/ • July 2024 - Present

- Deploying a secure messaging application using **Docker containers** on **Azure**, ensuring scalability and high **availability**, and incorporated robust encryption protocols to **maintain** data privacy and compliance with industry standards.
- The app, currently in the prototyping phase, features a front-end built with Vue.js, JavaScript, HTML, and CSS, and a back-end powered by Python Flask and Socket.IO.
- Hosted in a **Docker** compose **container** on **Azure**, ensuring scalability and reliability. The application aims to provide seamless and secure messaging, supporting text, images, and videos, and designed with a focus on robust security and efficient real-time communication.

Flask-Based Rock, Paper, Scissors Web App with CI/CD Pipeline

Personal Project • tylerkhudson.com//flask-project-rock-paper-scissors/ • February 2024 - Present

- Engineering a Flask-based Rock, Paper, Scissors web app incorporating HTML and CSS for a user-friendly interface, with functionality to record and display match history, while concurrently implementing a CI/CD pipeline using Jenkins for automated deployments.
- The project involves implementing a CI/CD pipeline with Jenkins to automate deployments and using **Docker** for **containerization**.
- Utilized **Docker** for **containerization** and plan to deploy the application to an **Azure-hosted Kubernetes** cluster managed with Terraform, enhancing scalability and reliability.

EXPERIENCE

Jr. Network Administrator

Global Evangelism Inc.

August 2024 - Present, San Antonio, TX

- Assisted in the installation, configuration, and maintenance of **network** devices such as routers, switches, firewalls, and wireless access points.
- Diagnosed and resolved **network connectivity** issues, hardware malfunctions, and software conflicts to minimize downtime.
- Ensured system integrity by implementing **network** security protocols, leading to a 40% reduction in unauthorized access incidents over a 12-month period using tools such as Cisco XDR and Cisco ASA.
- **Monitored network** performance and security using various tools, ensuring **network** stability and identifying potential vulnerabilities.
- Accompanied senior **network** administrators & engineers to implement **network** upgrades and improvements.
- Implemented monthly switch configuration updates across 50+ devices, utilizing Cisco IOS and improving **network** performance by 15%.

I.T. Technician & Cloud Lead

Hudson I.T. Consulting LLC

October 2019 - Present, San Antonio, TX

- Designed, installed, and managed **network** infrastructure for clients in the medical, pharmaceutical, and various other industries, utilizing Ubiquiti devices, including switches, gateways, and cameras.
- Developed and enforced cyber compliance protocols, reducing security breach incidents by 30% over 12 months through the implementation of multi-factor authentication and regular system audits.
- Leveraged cloud platforms to deploy and **maintain** infrastructure, using tools such as Terraform for automated environment provisioning, particularly for development and testing environments.
- Collaborated on full-stack web application development projects, focusing on frontend technologies and **containerization** with **Docker**, while working closely with the backend developer to ensure seamless integration.

- Provided technical consulting services to clients, offering tailored solutions to meet specific business needs, including **network** optimization, cloud adoption, and infrastructure scaling.
- Implemented NodeJs – based cloud solutions, improving system efficiency by 25% over a six-month period while **maintaining** 99.9% uptime using **Azure** and **Docker**. **Created** NodeJs APIs for these solutions.

Service Reliability Center Engineer

Nuance Communications Inc. & Microsoft

August 2022 – May 2023, Remote

- Participate in the implementation of CI/CD practices using **Azure DevOps** Pipelines, ensuring efficient and seamless project delivery for the team.
- Implemented Agile methodologies to reduce incident response times by 30% over a six-month period using tools such as JIRA and Confluence, enhancing overall system reliability and uptime.
- Drove automation initiatives by **creating** Python scripts and leveraging Power.
- Automate, resulting in **increased** productivity, faster incident resolution (MTTR), and customized alerts.
- Demonstrated a strong commitment to security standards by successfully implementing solutions aligned with FedRAMP requirements.
- Streamlined **Azure** resource provisioning and configuration through the implementation of infrastructure as code templates with Terraform, reducing manual effort and enhancing efficiency.

EDUCATION

Bachelor of Computer Information Systems

Texas State University • San Marco, TX • 2022

CERTIFICATIONS

Azure Fundamentals

Microsoft • 2024

- This certification provides foundational knowledge of core **Azure** services, cloud concepts, and **Azure management** tools, which are crucial for understanding how to leverage **Azure's** cloud offerings effectively.

Security +

CompTIA • 2024

- Scheduled for early October.

SKILLS

Hard Skills: Analyst, **Troubleshooting**, Cloud, Firewall, Load Balancer, **Network Administration**, **Network Design & Implementation**, **Systems Administration**, **Linux**, Scripting, Terraform, **Docker**, **Azure**, **AWS**, Automation

Soft Skills: Leadership, Cross Functional, Communication, Analytical, Detail Oriented, Highly Motivated