

Ahmad Raaiyan

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WORK EXPERIENCE

Systems Administrator I

Texas A&M University Libraries

College Station, TX

September 2024 - Present

- Architecting and deploying a new SUSE Rancher instance with bare-metal k8s clusters to transition away from existing VMware clusters, improving performance and reducing infrastructure costs.
- Upgraded a high-availability internal Docker registry (Harbor), developing custom scripts to migrate all artifacts without data loss or service interruptions, resulting in improved stability and performance across all environments.
- Maintain and troubleshoot Rancher-based Kubernetes clusters and vSphere instances supporting mission-critical applications
- Manage DNS/IPAM infrastructure using Infoblox along with NGINX as a load balancer and TLS terminator, ensuring seamless routing and high availability
- Handle system patching and updates, improving security and minimizing downtime across production environments

Linux Systems Administrator (Student)

Texas A&M College of Engineering, College of Arts and Sciences

College Station, TX

March 2024 - September 2024

- Managed a fleet of Ubuntu/RHEL servers, ensuring HA and security compliance for research environments.
- Utilized Ansible, Chef, and Bash scripting to automate server provisioning, reducing deployment times significantly
- Coordinated with research staff to tailor infrastructure solutions while adhering to strict security protocols.

Systems Administrator (Student)

Texas A&M Division of Student Affairs

College Station, TX

June 2023 - March 2024

- Maintained camera server infrastructure supporting 1,000+ endpoints, ensuring consistent uptime and reliability.
- Developed PowerShell scripts and utilized SCCM/GPO to automate deployments, improving operational efficiency.
- Integrated MacOS/iOS devices into an enterprise Windows environment using JAMF and ASM.

PROJECTS

Aggies in Real Estate

Ruby on Rails web application for Texas A&M's Aggies in Real Estate organization, providing members with an internal portal for events, attendance tracking, and role management

- ❖ Lead Backend developer

Gatekeeper - Google Cloud IAM Policy Agent

Built an agent that translates plain English access control requests into Google Cloud IAM bindings with optimal accuracy and speed, along with a modern and responsive frontend built using React - mentored by Google SWE Manager

- ❖ Team Lead
- ❖ Integrated with GCloud API to fetch real-time organization information and apply generated policies (after validating)

Wincrawl (Winsock based Web Crawler)

High performance Web Client written in C++ designed to crawl and parse large amounts of URLs

- ❖ Implements safe multithreading to maximize crawl speed and provide real-time crawl statistics

EDUCATION

Texas A&M University

BS, Computer Science

College Station, TX

2021 - Spring 2025

TECHNICAL SKILLS

Languages: Python, C++, Javascript/Typescript, Ruby, Swift, Bash, Powershell, SQL

Infrastructure/Tools: Kubernetes, Rancher, Docker, Harbor, Ansible, RHEL Satellite, Infoblox, NGINX, vSphere, Cloudflare, Active Directory, CI/CD Pipelines