

Rose McConnell

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Cloud and DevOps-focused engineer with over 4 years of experience deploying and managing infrastructure in Azure and AWS using Terraform, Kubernetes, Docker, and CI/CD pipelines through professional and personal projects.

EDUCATION

Bachelor of Science in Computer Science

Clemson University, Clemson SC | Dean's List

Dec 2023

TECHNICAL SKILLS

Cloud Platforms: Microsoft Azure, AWS

Infrastructure as Code: Terraform, ARM Templates, Bicep

Containers & Orchestration: Docker, Kubernetes, AKS

CI/CD & DevOps: GitHub Actions, Azure DevOps, Apache Airflow

Programming & Scripting: Python, PowerShell, Bash, SQL, JavaScript/HTML/CSS, C#

Monitoring & Observability: Grafana, Prometheus, Azure Monitor

Networking: TCP/IP, DNS, HTTP/HTTPS

Databases: PostgreSQL, MySQL, SQL Server + SSMS, CosmosDB, Redshift

Systems: Linux, Git, Windows, O365

Certification: Microsoft Certified: Azure Fundamentals (AZ-900)

PROJECTS

[Reddit Data Pipeline](#) | *AWS, Python, Apache Airflow, dbt, Docker, Terraform*

- Built an end-to-end ELT pipeline to ingest, transform, and analyze large-scale Reddit submission data from the Pushshift dataset using Amazon Redshift Serverless and Power BI.
- Created 4 Apache Airflow workflows with Dockerized execution for extraction, cloud ingestion, warehousing, and SQL-based transformations.
- Designed and implemented transformation layers in dbt on Amazon Redshift to support downstream reporting and analysis.
- Provisioned AWS infrastructure (Amazon S3 and Redshift Serverless) with Terraform, enabling reproducible environment setup and teardown.

[FastAPI Journal](#) | *Python, Azure, FastAPI, Kubernetes, Docker, GitHub Actions, Terraform, Grafana, Prometheus, PostgreSQL*

- Deployed containerized FastAPI and PostgreSQL workloads to Azure Kubernetes Service (AKS).
- Automated infrastructure provisioning with Terraform and implemented CI/CD pipelines using GitHub Actions.
- Integrated Prometheus and Grafana monitoring for application and infrastructure observability.
- Implemented cloud security best practices including Azure Key Vault secret management, network segmentation, encryption at rest, and least-privilege access controls.

[Cloud Resume Website Project](#) | *Azure, JavaScript, HTML/CSS, Python, CosmosDB, Azure Functions, GitHub Actions, ARM Templates*

- Developed and deployed a personal resume website using Azure Storage static hosting and Azure Front Door with HTTPS custom domain configuration.
- Built GitHub Actions CI/CD pipelines and automated testing workflows for backend deployments.
- Developed a Python Azure Function and CosmosDB-backed visitor counter integrated with the frontend application.
- Provisioned Azure infrastructure using ARM templates for repeatable deployments.

RELEVANT EXPERIENCE

Web and Applications Developer

International City/County Management Association | Remote

Oct 2023 – Present

- Developed and optimized 80+ SQL queries across MySQL and SQL Server databases to support reporting, analytics, and operational workflows.
- Automated recurring conference data imports for over 5,000 registrants using custom PowerShell scripts, significantly reducing manual processing time.
- Developed and maintained 25+ C# application components while supporting Azure DevOps CI/CD workflows and deployment processes.
- Built and maintained 30+ Power BI dashboards and analytics reports supporting real-time operational insights.
- Collaborated with other teams to design and develop 6 mobile apps for members to easily get information in real time for our major conferences.
- Led QA testing and contributed technical expertise during our NetForum AMS and Drupal CMS upgrades, improving stability and reducing bugs by 30% during rollout.
- Provided training and documentation to over 80 staff members on various CMS platforms, BI dashboards, Azure DevOps practices, and AMS implementations while handling an average of 20 help desk tickets weekly.
- Monitored application performance, uptime, and security, proactively resolving infrastructure and site reliability issues.
- Managed and resolved over 600 internal support help desk tickets over 2 years, consistently providing timely technical solutions and documenting issues to enhance the team's knowledge base and improve response time.

R&D Firmware Tester Co-op

Itron | Seneca, SC

Aug 2022 – Aug 2023

- Created and ran over 20 test cases to validate embedded firmware for the meters.
- Collaborated with cross-functional teams to ensure seamless integration into the metering system.
- Refactored test code to improve modularity and maintainability, contributing to successful deployment of firmware updates.

Data Engineering Intern

CEVAC | Clemson, SC

May 2022 – Aug 2022

- Oversaw a team of 8 people to develop and contribute to a database with over 30 million records.
- Compiled and formatted xrefs in Python, created several SQL views, and created a plugin to monitor wastewater data.
- Engineered backend logic to calculate and store min/max environmental data across 30+ campus buildings.

IT Technical Support

Clemson University | Clemson, SC

Aug 2019 – May 2022

- Systematized ticket backlog priority to improve work efficiency for over 50 daily incoming tasks.
- Helped troubleshoot and maintain a network of over 1,000 campus machines.
- Assisted in developing and testing the Autopilot software for campus imaging.