Aubry McConnell

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EDUCATION

Bachelor of Science **in Computer Science**
Clemson University, Clemson SC | Dean's List

`Dec 2023`

TECHNICAL SKILLS

***Cloud & Infrastructure*:** Microsoft Azure infrastructure (Portal, CLI, ARM Templates), Azure DevOps, Terraform, Kubernetes, Docker
***CI/CD & DevOps*:** GitHub Actions, Azure DevOps, Agile methodology
***Scripting & Programming*:** Python, PowerShell, Bash, Java, JavaScript, C#, C++, SQL, Git, AI/ML
***Monitoring & Observability*:** Grafana, Azure Monitor
***Systems & Networking*:** Linux, Windows, Networking fundamentals

ACCOMPLISHMENTS

- Obtained the AZ-900 (Azure Fundamentals) certification in April 2025, proving foundational knowledge of cloud services and Azure architecture.
- Managed and resolved over 400 internal support tickets over 1.5 years, consistently providing timely technical solutions and documenting issues to enhance the team's knowledge base and improve response time.
- Redesigned several pages to enable user-submitted content that is automatically formatted with auto-expiration based on specified dates.

PROJECTS

FastAPI Journal | ***Python, Azure, FastAPI, Kubernetes, Docker, GitHub Actions, Terraform, Grafana, Prometheus***

- Deployed a journaling API on Azure using containerized FastAPI and PostgreSQL virtual machines.
- Provisioned infrastructure with Terraform, implemented CI/CD using GitHub Actions, and orchestrated deployment with Azure Kubernetes Service (AKS).
- Integrated Prometheus and Grafana for real-time monitoring, demonstrating a complete cloud-native DevOps pipeline.

Cloud Resume Website Project | ***HTML/CSS, Azure, JavaScript, Python, CosmosDB, Azure Functions, GitHub Actions, ARM Templates***

- Developed and deployed a personal resume website using an Azure Storage static website, with a HTTPS-enabled custom domain via Azure Front Door.
- Implemented a JavaScript-based visitor counter backed by an Azure Function (Python) and CosmosDB Table API.
- Built and configured cloud resources and infrastructure with ARM templates.
- Set up CI/CD pipelines with GitHub Actions to automatically deploy both the front-end and backend upon updates.
- Wrote unit tests for the Python API code to ensure functionality and maintainability.

Gender & Age Detector | ***Python, OpenCV, Deep Learning***

- Built and tested a real-time image processing app to detect faces and predict age/gender using a deep learning model and OpenCV.

Face Mask Detection System | ***C, JavaScript, Python, Azure DevOps, GitHub***

- Led a 4-person team to build a real-time face mask detection and temperature logging system.
- Utilized Azure DevOps and GitHub for version control and automation, with data sent to a live website via a custom hardware/software interface.

RELEVANT EXPERIENCE

Web Developer
International City/County Management Association | Remote

- Write over 50 complex SQL queries to generate reports across several MySQL and SSMS databases, ensuring data integrity for multiple teams.
- Automate recurring conference data imports for over 3,500 registrants using custom PowerShell scripts, streamlining workflows and reducing manual effort.
- Build and maintain over 30 dynamic Power BI and Google Analytics dashboards to support real-time data insights and cross-departmental decisions.
- Provide training and documentation to over 40 staff members on various CMS platforms, BI dashboards, Azure DevOps practices, and AMS implementations.
- Monitor and improve site performance and uptime, resolving performance and uptime issues and applying proactive security patches.
- Develop and maintain over 10 major C# components for the NetForum AMS while adhering to Azure DevOps best practices including version control and CI/CD.
- Led QA testing and contributed technical expertise during NetForum AMS and Drupal CMS upgrades, improving stability and reducing bugs during rollout.

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.