Brook Kassa (763)-300-0767

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PROFESSIONAL SUMMARY

Cloud engineer with hands-on experience across AWS and Azure, specializing in infrastructure-as-code, serverless architectures, and cloud automation. Certified AWS Cloud Practitioner, with additional Microsoft and Cisco credentials supporting a strong foundation in networking and cybersecurity. Skilled in designing secure, scalable cloud environments using Terraform, Docker, Python, and GitHub Actions, as well as managing compute, databases, IAM, and monitoring services. Projects include BITS CloudReady™, a simulated AWS business network showcasing enterprise migration patterns, and YegnaNet, a community-powered Wi-Fi access map for Ethiopia. Adept at streamlining deployments, optimizing costs, and ensuring high availability. Portfolio at brookkassa.com.

EDUCATION

Bachelor of Science, Computer Science   **Graduated: May 2025**
West Chester University of Pennsylvania

EXPERIENCE

Cloud Engineer – Unisys   **September 2025 – Present**

- Engineer secure and scalable infrastructure across AWS and Azure environments for enterprise and government clients
- Automate deployments using Infrastructure as Code (Terraform) and CI/CD workflows with GitHub Actions
- Support cloud migration, monitoring, and incident response initiatives using best practices in cloud architecture and automation

BITS CloudReady™ – *Personal Project*   **June 2025 – August 2025**

- Built a fully simulated AWS business network demonstrating enterprise migration patterns and best practices.
- Designed multi-tier VPC architecture with public/private subnets, secure IAM policies, and monitoring via CloudWatch.
- Deployed compute (EC2, Lambda) and relational database (RDS) with encryption, failover using Route 53 health checks, cost controls with AWS Budgets.

YegnaNet – *Personal Project*   **March 2025 – August 2025**

- Developing a community-powered Wi-Fi hotspot map for Ethiopia using Azure Functions and Cosmos DB
- Designed REST APIs for submitting and retrieving hotspot data with location metadata
- Building an interactive frontend in React and Leaflet.js to visualize live network coverage
- Implemented CI/CD pipelines to automate deployments and translations of user-submitted content

Cloud Resume Challenge – *Personal Project*   **January 2025 – June 2025**

- Built a fully serverless portfolio site hosted on Azure using static web apps and Azure Functions
- Integrated a live visitor counter using Python Azure Functions and Cosmos DB
- Automated deployments with GitHub Actions and provisioned infrastructure via Bicep templates

CERTIFICATIONS

AWS Certified: Cloud Practitioner **(2025)**   **U.S. Citizen | Active U.S. Government Security Clearance (2025)**
Microsoft Certified: Azure Administrator Associate **(2025)**   **Microsoft Certified:** Azure Fundamentals **(2024)**
Microsoft Certified: Security, Compliance, and Identity Fundamentals **(2025)**   **Cisco Certified:** Support Technician **(2024)**

SKILLS

AWS (EC2, S3, RDS, Lambda, VPC, IAM, Route 53, CloudWatch), Azure (App Services, Functions, Cosmos DB, Blob Storage, Monitor, RBAC, Azure DevOps), Terraform, Bicep, ARM Templates, Ansible, GitHub Actions, Docker, Kubernetes, Git, Jira, Prometheus, Python, Java, Node.js, React, Vite, REST APIs, PowerShell, Bash, Networking (IPv4/IPv6, Subnetting, VLANs), Cloud Architecture, CI/CD, Cloud Security, Automation.