

Stephen Schmitz

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CERTIFICATIONS

- AWS Certified Solutions Architect - Professional (SAP-C02)
- AWS Certified Solutions Architect - Associate (SAA-C03)
- AWS Certified Cloud Practitioner (CLF-C02)

SKILLS

Cloud Platforms: AWS (EC2, VPC, S3, Route 53, CloudWatch), Azure (VNET, DevOps, Web App, DNS Zone, Monitor)

Tools & Automation: Terraform, Jenkins, Docker, Kubernetes, Ansible, Git, Bitbucket, Nginx, Jira

Network Security: Virtual Networks, Subnetting, DNS Zones, TLS Certificate Management, Firewall Policies, Network Access Control, DDoS & Web Attack Mitigation, Linux Systems Administration, Secret & Encryption Key Management

Languages & Frameworks: Python, Bash, YAML, SQL, Javascript, Typescript, Node.js, Next.js, React, Vite, HTML/CSS, Java

PROFESSIONAL EXPERIENCE

Infrastructure & Full-Stack Engineer

2020-Present

Method (Consultancy) | Charlotte, NC

Flooring Solutions Client

- Architected a scalable Azure web infrastructure using Terraform, provisioning 30+ cloud resources across QA, UAT, and Prod environments. Optimized workflows by leveraging Azure DevOps for artifact storage and repository management
- Spearheaded fully automated Continuous Integration and Continuous Delivery (CI/CD) pipelines using Azure Pipelines YAML. Reduced deployment errors and Terraform drift by 60% with state locking in Azure Resource Manager (ARM)
- Engineered Virtual Networks (VNETs), Subnetting, and Policy as Code to ensure security constraints for cloud resources. Cut potential attack vectors 40% by configuring IPsets to tightly manage ingress and egress traffic
- Led the integration of Azure Monitor and New Relic, ensuring real-time visibility into system performance insights and traffic analytics across environments

Financial Services Client (Fortune 500)

- Oversaw the optimization of an AWS S3 static asset library, designed and implemented cost-efficient storage lifecycle policies achieving a 30% reduction in object archival costs
- Established Role-Based Access Controls (RBAC) for client-facing microservice modules, enhancing asset security
- Additionally directed automated testing initiatives for a Commercial Banking Suite codebase. Utilized Jest, React Testing Library (RTL), and Mock Service Workers (MSW) to achieve a 70% increase in overall regression testing coverage

Automotive Supplier Client

- Drove the digital transformation of a legacy web application fulfilling acceptance criteria for 60+ user stories, including integrating APIs and Content Management System (CMS) data to build responsive modules in Next.js
- Collaborated bi-weekly with stakeholders to demonstrate accomplishments and refine concerns for upcoming sprints

Digital Strategy Client

- Developed an Augmented Reality application utilizing Swift and Firebase, demonstrating a breadth of full-stack development principles. Reduced AR scene load times by 40% leveraging the latest technology in ARKit and RealityKit
- Applied agile methodologies for day-to-day operations, facilitating cross-functional collaboration between developers and stakeholders

INDEPENDENT PROJECTS (most notable)

Distributed Microservice Architecture

Terraform, Docker, VPC, ECS, Fargate, ECR | Service-Oriented Cloud Application

- Architected and deployed a serverless, orchestrated, containerized microservice application using AWS Elastic Container Service (ECS) for scalability and high availability, achieving 99.99% uptime
- Streamlined container image updates to AWS Elastic Container Registry (ECR) with GitHub Actions YAML continuous delivery pipeline allowing for automated deployments
- Optimized infrastructure costs by configuring auto-scaling for Fargate tasks, achieving a 30% reduction in resource consumption during low-traffic periods

E-Commerce Cloud Infrastructure

Terraform, EC2, VPC, Jenkins, NextJS, Nginx | 3-Tier Web Application Infrastructure

- Executed a highly available, scalable, fully managed 3-tier web application using Terraform, EC2, Application Load Balancer, Auto Scaling Groups, Lambda, API Gateway, and DynamoDB.
- Built automated Continuous Integration and Continuous Delivery (CI/CD) pipelines with Jenkins for seamless deployments, implemented CloudWatch monitoring to enhance system performance visibility
- Secured resources with a Virtual Private Cloud (VPC) and Subnetting, improving site security by 40%. Used Security Groups and a VPC Endpoint Gateway, enabling secure communication between application layers

Serverless Elastic Beanstalk Architecture

Terraform, Beanstalk, VPC, S3, Route53 | Resilient End-to-End Web Architecture

- Designed a serverless, scalable, and fault-tolerant infrastructure using AWS Elastic Beanstalk, implementing zero-downtime rolling deployments with built-in scaling and load balancing, cutting operational overhead by over 80%
- Enforced IAM Policy as Code to incorporate the principle of least privilege, ensuring secure management of ingress and egress traffic across AWS resources

EDUCATION

University of North Carolina at Charlotte

- Bachelor's in Computer Science, Concentration in Information Technology