

MATT BENEDICT

CLOUD & NETWORK ENGINEER

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01 SUMMARY

Cloud and network engineer with a **B.S. in Cloud & Network Engineering** and **10 certifications** (incl. AWS Solutions Architect & CloudOps – Associate, CompTIA Network+/Security+). Ship **production serverless systems on AWS** and design **hybrid cloud networks** involving VPC/VPN, VLAN segmentation, routing, firewall policies, etc. Moving full-time into cloud and network engineering from a manufacturing role where I designed and deployed the company's AWS stack: IoT automation, data migrations, real-time dashboards, RESTful APIs, automation workflows, etc.

02 CERTIFICATIONS

AWS Solutions Architect – Assoc.	AWS CloudOps Engineer – Assoc.	AWS Cloud Practitioner	HashiCorp Terraform Assoc.
CompTIA A+	Network+	Security+	Cloud+
LPI Linux Essentials	ITIL Foundation		

03 TECHNICAL SKILLS

AWS	Lambda · API Gateway · EC2 · S3 · DynamoDB · CloudFront · Cognito · IAM · VPC · Site-to-Site VPN · CloudWatch · WAF · ECS / Fargate · AppSync · Bedrock · Rekognition · IoT Core · SES · EventBridge · Secrets Manager
NETWORKING	Hybrid cloud architecture · route-based IPsec Site-to-Site VPN (IKEv2, NAT-Traversal) · VLANs / 802.1Q trunking · zone-based firewalls · NAT / DNAT · DHCP · routing · subnetting
IAC & CI/CD	AWS CDK (C#, TypeScript) · Terraform · GitHub Actions · OIDC federation · AWS Amplify
LANGUAGES	C# / .NET · TypeScript · Python · C++ · PowerShell · SQL
TOOLS & PLATFORMS	Linux · Windows Server / Active Directory · VMware / Hyper-V · Docker · GNS3 · VyOS · Open vSwitch · Wireshark · Git / GitHub · SolidWorks PDM (administration and add-ins)

04 EXPERIENCE

Creative Works Indianapolis, IN

July 2017 – Present

Cloud & Network Engineer / CAM Engineer

- Designed and deployed an **event-driven IoT pipeline** (Monday.com webhook → AWS Lambda → DynamoDB → AWS IoT Core → ESP32 devices) that pushes real-time job alerts to physical indicators at the machines, surfacing status for operators working away from their screens who would otherwise miss it.
- Led a **MySQL → DynamoDB migration** with a DynamoDB Streams rollup pipeline and EventBridge-scheduled sync for fast analytics reads; removed an unneeded NAT Gateway (~\$32/mo) by relocating the on-prem-bound job, after weighing the networking and maintenance trade-offs.
- Built a **real-time WebSocket dashboard** (API Gateway WebSockets + DynamoDB) that centralizes Monday.com time-tracking into one live view for **5 managers**, replacing manual metric-pulling and showing at a glance who's tracking time and what each team member is working on.
- Engineered a **SolidWorks file-viewing pipeline** (Windows conversion worker + AWS Lambda + CDK, multi-table DynamoDB) along with a browser-based 3D model review application with no desktop CAD license required.
- Provision and maintain the company's AWS infrastructure **as code (CDK)**; also lead CAM & SWOOD programming and serve as sole **SolidWorks PDM administrator**. These were the manufacturing and engineering responsibilities the role grew out of.

05 PROJECTS

- Hybrid-Cloud Network** CAPSTONE github.com/sormin-the-red/BSCNE-AWS-Capstone-Project---E030
On-prem site (GNS3): **VyOS** router/firewall, three-VLAN segmentation over **802.1Q** trunking, screened **DMZ**, DHCP, and NAT/DNAT — bridged to an **AWS VPC over a route-based IPsec Site-to-Site VPN** (IKEv2 + NAT-Traversal). Cloud side: tiered public/app/data subnets with **Security Groups + NACLs**, VGW routing deliberately scoped to one on-prem subnet for least-privilege access — all in **Terraform**. Validated across 8 test cases.
- GlazeVault — Serverless Backend** github.com/sormin-the-red/vitrify-backend
Domain-decomposed serverless API: **9 bounded-context Lambdas** behind one HTTP API · **single-table DynamoDB** with access-pattern GSIs · Cognito social OAuth + triggers · **Bedrock** generative-AI integration · Rekognition moderation · CDK IaC.
- The Duke Online** REAL-TIME MULTIPLAYER theduke-online.com
AWS AppSync (GraphQL + WebSocket subscriptions) · Cognito · Elo ratings · **WAF + DynamoDB throughput caps + Budgets** cost/abuse guardrails · CDK.
- mkuntz-site** SERVERLESS SITE github.com/sormin-the-red/mkuntz-site
Keyless **GitHub Actions + OIDC** CI/CD deploying CDK · CloudFront edge-cached static reads (no Lambda on the hot path).

06 EDUCATION

B.S. Cloud & Network Engineering (AWS track) — Western Governors University · *coursework complete; conferring 2026*