

# JAKE COLLYER

Georgia, USA | jakecollyer.cloud | AWS Certified Generative AI Practitioner

Cloud Solutions Architect transitioning from enterprise-scale physical logistics and quality assurance to high-availability cloud infrastructure. Specializing in event-driven serverless computing, FinOps cost-optimization, and automated CI/CD pipelines. Proven ability to bridge the gap between complex logistical networks and scalable cloud architecture.

## EXPERIENCE

---

### Field Quality Assurance Present Amazon Services | Georgia

- Execute rigorous quality audits across network operations, identifying and mitigating process bottlenecks to ensure high-fidelity delivery systems (paralleling cloud metric monitoring and SLA adherence).
- Analyze large datasets to trace defects back to root causes, implementing continuous improvement protocols across regional facilities.

### Owner & Technical Lead 2020 – Present Blue 3D LLC

- Architect and maintain self-hosted Unraid server infrastructure to support custom software development and automated workflows.
- Develop proprietary 3D printing tools, including a parametric neon sign generator requiring complex firmware integration (Klipper) and automated rendering pipelines.
- Manage hardware design, DIY electronics projects, and IoT integrations (Raspberry Pi, WLED, ESP32) for custom manufacturing endpoints.

### Process Assistant / Yard Marshall Previous Role Amazon Services | Georgia

- Directed daily dock operations and managed teams of up to 40 associates, ensuring optimal resource allocation and throughput.
- Optimized yard routing and freight flow, reducing latency in logistics pipelines and improving overall node efficiency.

## CLOUD ARCHITECTURE PORTFOLIO

---

### Asynchronous Neon Sign Generator

*Tech Stack: SQS, ECS Fargate, S3, API Gateway*

- Architected a decoupled serverless rendering pipeline that converts 2D logos to 3D-printable STLs.
- Utilized SQS and ECS Fargate to bypass API Gateway timeout constraints and scale compute to zero when idle, minimizing costs.

### SmartStore Gacha Inventory Platform

*Tech Stack: API Gateway, DynamoDB, Cognito*

- Developed a serverless SaaS backend utilizing single-table NoSQL design to track token balances and physical machine restock levels.

## S3-Driven Trend Scraper

*Tech Stack: EventBridge, Lambda, S3 Glacier*

- Engineered an automated data pipeline to scrape 3D printing trends, utilizing strict S3 Lifecycle policies for automated data tiering and cost optimization.

## EDUCATION & CERTIFICATIONS

---

- **AWS Certified Solutions Architect – Associate (SAA-C03)** – *In Progress (Targeting May 2026)*
- **AWS Certified Generative AI Practitioner** – *Active*
- **Bachelor of Business Administration (BBA) - Project Management** – *90 Credits Completed*

## TECHNICAL SKILLS

---

- **Cloud & Infrastructure:** AWS (Lambda, S3, ECS, Fargate, API Gateway, DynamoDB, SQS, SNS, EventBridge, CloudFront, Route53), Serverless Architecture, FinOps (Infracost, Cost Explorer API)
- **Automation & IaC:** Terraform, GitHub Actions (CI/CD), Python (Boto3)
- **Systems & Hardware:** Unraid OS, Raspberry Pi, ESP32 microcontrollers, Klipper firmware, IoT integration
- **Design & AI:** Fusion 360, 3D Modeling (Parametric Design), AI Prompt Engineering (Google AI Pro, Claude Pro)