

JOSHUA IBITOYE

Cybersecurity & AI Researcher | AWS-Certified DevOps Engineer | Cloud Security Specialist

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Professional Summary

Cybersecurity and AI researcher with over 5 years' experience in Security Engineering, 5 years in Artificial Intelligence/GenAI, and 3 years in DevOps engineering with AWS. Certified AWS DevOps Engineer and Solutions Architect with strong hands-on expertise in EC2, S3, Lambda, SageMaker, IAM, and CloudTrail. Proven record of research and industry application across cloud resilience, AI-driven cybersecurity, and intelligent systems design.

Certifications

- AWS Certified DevOps Engineer – Professional
- AWS Certified Solutions Architect – Associate
- CompTIA Security+
- Certified Ethical Hacker (CEH)
- Digital Forensics (EC-Council)
- Certified Cybersecurity Technician (EC-Council)

Core Expertise

- Security (IAM, CloudTrail, Config)
- Artificial Intelligence/GenAI (SageMaker, Bedrock, AI frameworks)
- DevOps (EC2, S3, Lambda, CI/CD, Terraform)

Professional Experience

Cybersecurity & AI Research Consultant – Independent

- Authored multiple peer-reviewed research papers on AI-driven cybersecurity, cloud forensics, and intelligent automation.
- Designed and developed Self-Healing Network prototype recognized in international publications.
- Built intelligent forensic systems leveraging AWS SageMaker, IAM, and CloudTrail for cloud-native threat detection.

DevOps Engineer & Lead Consultant – ITeck Innovations 2024 – Present

- Architected and deployed secure AWS infrastructures leveraging EC2, S3, and Lambda.
- Led CI/CD automation pipelines using CodeBuild, CodeDeploy, and CodePipeline.
- Implemented Terraform-based IaC and container orchestration with Docker/Kubernetes.
- Optimized client solutions with AI-integrated monitoring and self-healing capabilities.

Network Engineer – Icyber Technologies (Part-time) – 2022 - 2024

- Installed and maintained secure network infrastructures, integrating AWS VPN and VPC best practices.
- Enhanced uptime and security through proactive monitoring and CloudWatch integration.
- Delivered technical support and communication solutions using VoIP-SIP.

System Integration Engineer – Rutotech Global Service (Huawei) – 2020 - 2022

- Improved Huawei OWS with Python and TypeScript, enhancing monitoring and reliability.
- Applied AI algorithms to AWS-hosted datasets to predict vulnerabilities.
- Conducted debugging and system optimization for enterprise-scale services.

Additional Roles

- Security/Hardware Engineer – Southeast Missouri State University: Conducted audits, integrated AI-driven detection (2022–2024).
- Software Engineer – Macroware LTD: Full-stack secure development with Java, PHP, Python (2019–2020).
- Data Analyst – Atlantic International University (Part-time): Managed secure data compliance (2018–2022).
- Network Engineering Intern – NNPC/PPMC: Designed and secured LAN/WAN infrastructures (2016–2017).

Selected Publications

- Self-Healing Networks Using AI-Driven Root Cause Analysis for Cyber Recovery (2024)
- AI-Driven Cybersecurity and Intelligent Forensic Networks (2024)
- Enhancing Security in Cloud Computing Through Automated Threat Detection (2023)

- More on ResearchGate: researchgate.net/profile/Joshua-Ibitoye-2

Selected Projects

- AI Self-Healing Network System – Autonomous detection & recovery with AWS integration.
- Cloud Infrastructure Optimization – Deployed AWS Lambda, EC2, S3, DynamoDB.
- Automated Crypto Trading Bot – Real-time analytics dashboard with GPT signals.
- Intelligent Remote Desktop Control System – GPU-accelerated live control with DirectX.
- Tech Content Automation System – Multi-platform AI media generator.

Technical Skills & Core Competencies

- Cloud: AWS (EC2, S3, IAM, Lambda, SageMaker, CloudTrail, CodePipeline), Azure, GCP
- DevOps: Docker, Kubernetes, Terraform, Jenkins, GitHub Actions
- Programming: Python, Go, Java, C++, JavaScript
- Security: SIEM, IDS/IPS, Forensics, Threat Intel, PenTesting
- AI/ML: TensorFlow, PyTorch, SageMaker, Generative AI Systems
- Networking: TCP/IP, VPN, Firewalls, VPC
- Platforms: Linux, Windows Server, macOS