

KEN BRIGHAM

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CERTIFICATIONS

- Google Cloud Security Engineer
- AWS Certified Solutions Architect - Associate
- AWS Certified Cloud Practitioner
- CompTIA - Security+
- CompTIA - Network+
- Google IT Support Professional
- Google Cloud Digital Leader
- Microsoft Azure Fundamentals (AZ-900)

PROFESSIONAL EXPERIENCE

Cloud Security Internships, Independent Work & Technical Projects

Washington, DC, USA

Cloud Security & Support Engineer

November 2020 - Present

- Developed AWS-native backup automation using EventBridge, Lambda, and EBS (Smart Vault). Features scheduled backups, audit logging via DynamoDB and cleanup automation.
- Created 'Silent Scalper', a serverless AWS data pipeline that auto-scales and handles file ingestion with no idle compute.
- Deployed 'KubeCart', a containerized Flask REST API to Google Cloud Run, initially launched on AWS EKS, using Docker and Kubernetes for orchestration.
- Built full-stack, 3-tier web application (Node.js, Fargate, PostgreSQL), fully provisioned through Terraform and containerized with Docker.
- Completed hands-on threat hunting and log analysis labs via TryHackMe, LetsDefend and HackTheBox.
- Standardized telemetry formats with Python and authored secure dashboard proposals during a virtual internship with Deloitte Australia.
- Tested VPN resilience with Python CLI tools in Verizon's cloud internship; evaluated IAM models during access control simulations for Tata Consultancy Services.

Various

Washington, DC, USA

Bartender/Shift Supervisor

October 2017 - Present

- Delivered exceptional service in high-volume settings; built strong interpersonal and multitasking skills.
- Supervised shift operations and trained new staff, maintaining secure payment handling practices.
- Enforced ID verification and alcohol compliance procedures, ensuring guest safety and legal adherence during all shifts.
- Monitored inventory levels and placed supply orders, reducing waste and cutting average monthly costs by over 10%.

5CA

Remote

IT Support Specialist

October 2019 - November 2021

- Resolved 25+ technical support tickets daily using Zendesk for high-profile gaming clients.
- Utilized VMs, VPNs, and remote desktop tools to troubleshoot user issues across platforms.
- Collaborated with internal and external teams across Discord, Atlassian stack (Confluence, Jira), and Microsoft Teams.
- Documented recurring issues and enacted improvements to internal knowledge base.
- Delivered technical guidance to non-technical users, translating complex steps into clear, actionable instructions.

PROJECTS & OUTSIDE EXPERIENCE

AWS - 3-Tier Web App

Remote

DevOps Engineer

- Designed and deployed a full-stack 3-tier Node.js web application using AWS ECS Fargate, ALB, and RDS PostgreSQL, managed via Terraform.
- Implemented secure infrastructure with SSL-enforced database connectivity, containerized (Docker) backend, and modular IaC for reusability.

Tata Consultancy Services (TCS) - Cybersecurity Virtual Internship

Remote

Cybersecurity Analyst Intern

- Assessed clients' IAM strategy readiness via holistic examinations and crafted tailored IAM solutions unique to client needs, accounting for organizational structure, existing systems, and current business processes.
- Authored and presented documentation outlining best practice recommendations, utilizing phased implementation strategies with ongoing monitoring & support.

Verizon Virtual Internship

Remote

Cloud Platform Engineer

- Evaluated a cloud-native VPN project for redundancy, resiliency, and security traits using Python CLI tools; published a concise report on the findings.

- Researched and presented security strategies for cloud-based applications across network, data, and application layers.

Azure - Home SOC - [Link to project](#)

Remote

SOC Analyst

- The Home SOC project is a functional personal cloud security operations center built on Azure services, featuring log ingestion with Log Analytics, real-time alerting via Azure Monitor, and custom detection rules for tracking suspicious activity across a simulated home network.

AWS - Smart Vault - [Link to project](#)

Remote

Cloud Engineer

- Smart Vault is a serverless AWS automation tool, used to create, tag, and manage EBS snapshots for EC2 instances based on resource tags
- It features scheduled backups, audit logging via DynamoDB, and automated cleanup to reduce storage costs.

AWS - Silent Scalper - [Link to project](#)

Remote

Cloud Engineer

- Using event-driven AWS architecture, Silent Scalper processes incoming files the moment they're uploaded (without pre-provisioned infrastructure), scales automatically, and handles both success and failure paths
- Eliminates idle compute waste, as well as prevents file loss resulting from crashes during unpredictable traffic spikes.

Deloitte Australia Job Simulation (Technology)

Remote

Software Engineer

- Designed a secure dashboard proposal for visualizing IIoT telemetry, incorporating role-based access via internal SSO, intranet-only availability, and structured access to historical logs.
- Developed Python scripts to standardize incoming JSON telemetry data, streamlining IIoT data processing and simulation workflows for proposal prototyping.

AWS PartyRock - JargonBridge GenAI - [Link to project](#)

Remote

GenAI Engineer

- A small Gen AI PartyRock tool for bidirectionally converting technical jargon and plain English.
- Includes a basic Claude-powered chatbot that can answer questions about terms used and its thought process behind the 'translations'.

Red Team - RogueSpeared Tool - [Link to project](#)

Remote

Penetration Tester

- Engineered a custom security testing tool that embeds executable payloads into WAV audio files using EOF polyglot techniques, simulating file-based evasion methods used in real-world attacks.
- Implemented XOR encryption, header obfuscation, and dynamic payload insertion to evade static file inspection tools, enhancing red team training and malware analysis awareness.

AWS/GCP - KubeCart

Remote

Cloud Engineer

- KubeCart is a containerized Flask microservice simulating a basic shopping cart API, deployed to AWS using Kubernetes (EKS) and exposed via a public Load Balancer.
- Features a live Swagger UI for testing endpoints, built using Flask-RESTX and deployed with Docker, eksctl, and kubectl. Later migrated to Google Cloud Run.

AIG Shields Up! Cybersecurity Program

Remote

SOC Analyst Intern

- Authored and posted an internal advisory regarding a newly discovered zero-day vulnerability affecting Apache Log4j to affected teams.
- Conducted threat analysis and wrote full remediation reports for a ransomware incident; scripted a custom bruteforcer using Python to gain access to maliciously encrypted files.

GitHub Actions - CI/CD Security Scan Pipeline - [Link to project](#)

Remote

DevSecOps Engineer

- Designed and deployed a CI/CD pipeline using GitHub Actions to automatically scan code, containers and infrastructure-as-code (Terraform) for misconfigurations and security vulnerabilities using Trivy, Bandit, OWASP Dependency-Check and Checkov.
- Integrated automated SARIF upload and GitHub code scanning to provide real-time security feedback during PR workflows, aligning DevSecOps principles with modern CI/CD best practices.

SKILLS

Skills: Python, Zendesk, Google Cloud Platform, AWS, Microsoft Azure, SOC, Bash, Confluence, Customer Service, Cryptography, Computer Networking, Docker, Kibana, Kubernetes, Linux/Unix, Microservices, Agile, Terraform, Route 53, Development Operations (DevOps), Splunk, CloudFormation, Git, Wireshark, JIRA, Ansible, Flask, Grafana, Lua, Nginx, Node.js, NoSQL, Postgres, React.js, REST APIs, Ruby, Vue.js, Web Development, DevSecOps

Languages: Spanish, English