

Joseph Mbatchou

AI Automation Engineer | AWS Cloud Architect | DevOps Engineer

Remote, onsite, and available for client time zones | Hollister, CA

+1 (408) 449-9131 | joebachou@gmail.com | joebahocloud.com

LinkedIn: linkedin.com/in/josephmbatchou | GitHub: github.com/Joebaho

PROFESSIONAL SUMMARY

Senior Cloud, DevOps, and AI Automation Engineer with 7+ years of experience building secure, scalable, and highly available AWS platforms. Strong background designing Kubernetes-based microservices platforms, automating infrastructure with Terraform and Ansible, and delivering CI/CD, observability, resilience, and FinOps improvements. Expanding cloud engineering work into AI automation through OpenAI-powered agents, RAG workflows, incident response automation, and AI-assisted infrastructure operations.

CORE SKILLS

AI & Automation

OpenAI API, Anthropic Claude API, LangChain, LangGraph, RAG, vector databases, MCP, AI agents, prompt engineering, n8n, AI workflow automation, Slack automation, Jira automation, Python automation.

Cloud & Platform

AWS, EC2, S3, IAM, VPC, RDS/Aurora, Lambda, ECS, EKS, CloudWatch, CloudTrail, Route53, Terraform, CloudFormation, Ansible, Docker, Kubernetes, ECR, Jenkins, GitHub Actions, GitLab CI/CD, ArgoCD, Prometheus, Grafana, Datadog, ELK Stack, OpenTelemetry, Kafka, SonarQube, Trivy, Linux, Bash, PowerShell, Groovy.

Security, Reliability & FinOps

Zero-trust architecture, IAM least privilege, MFA, secrets management, GuardDuty, Prisma Cloud, AWS Backup, disaster recovery, AWS Fault Injection Simulator, chaos engineering, SLO/SLI practices, CloudHealth, Infracost, ProperOps, Spot Instances, Reserved Instances, Savings Plans.

AI AUTOMATION PROJECTS

AI Kubernetes Troubleshooting Agent

Built a concept and implementation plan for an OpenAI-powered Kubernetes assistant that reads pod logs, events, and deployment metadata, diagnoses common failures, and generates remediation suggestions for platform engineers. Designed the workflow to integrate with EKS, kubectl, CloudWatch Container Insights, Prometheus, and Slack notifications.

AI DevOps Incident Response Agent

Designed an AI incident response workflow that analyzes CloudWatch alarms, service logs, and deployment changes, then drafts root-cause analysis summaries, Slack updates, and Jira tickets. The workflow is intended to reduce manual triage time and standardize incident communication across cloud operations teams.

Enterprise RAG Platform for Cloud Documentation

Designed a retrieval-augmented generation platform for internal runbooks, architecture documents, SOPs, and cloud standards using OpenAI, vector search, S3 document ingestion, and access-controlled enterprise search. The platform enables engineers to ask operational questions and retrieve source-grounded answers from approved documentation.

AI Cloud Cost Optimization Agent

Created a design for an AWS Cost Explorer and OpenAI-based FinOps assistant that reviews spend trends, rightsizing opportunities, idle resources, Savings Plans coverage, and Spot Instance candidates, then generates monthly cost-saving recommendations for engineering and leadership teams.

PROFESSIONAL EXPERIENCE

Freelance / Self-Employed

Senior Cloud & DevOps Engineer | Cloud Architect

Hollister, CA | Jan 2026 - Present

- Designed and implemented scalable AWS and Azure infrastructure for personal and client-facing applications using Terraform and Harness, supporting repeatable software delivery.
- Built and optimized CI/CD pipelines with GitHub Actions, Jenkins, and GitLab CI to automate build, test, and deployment workflows, improving release frequency and reducing deployment risk.
- Implemented Docker and Kubernetes solutions for microservices architectures, improving availability, fault tolerance, and resource utilization.
- Integrated Prometheus, Grafana, AWS CloudWatch Container Insights, ELK Stack, SonarQube, and Trivy to improve observability, vulnerability detection, and operational reliability.
- Automated infrastructure and operations tasks with Bash, Python, Ansible, and Terraform to reduce manual errors and improve environment consistency.
- Optimized cloud spend by 35% for a media company using rightsizing, Spot Instances, Savings Plans, Infracost, and CloudHealth reporting.

CloudSpace Consulting LLC

Senior Platform Engineer | Cloud Engineer | DevOps Engineer | Cloud Architect

Manassas, VA | May 2021 - Dec 2025

- Collaborated with product teams to design and implement scalable AWS infrastructure for 10+ applications using Terraform and CloudFormation.
- Engineered infrastructure automation with Terraform and Ansible to maintain consistent development, staging, and production environments.
- Designed highly available three-tier AWS applications using multi-AZ deployments, Auto Scaling, and Elastic Load Balancing.
- Provisioned and managed production-grade EKS clusters with Terraform, Karpenter, HPA/VPA, and FinOps practices.
- Executed blue-green Kubernetes deployments with ArgoCD to improve release safety and reduce downtime during updates.
- Built CloudWatch dashboards and Grafana visualizations, improving visibility into platform health and reducing mean time to recovery.
- Integrated AWS CloudWatch, X-Ray, Datadog, Prometheus, and Grafana for proactive monitoring and incident response.
- Used AWS Fault Injection Simulator and chaos engineering practices to uncover reliability gaps and improve resilience.
- Implemented fault-tolerant data architectures with Amazon RDS/Aurora Read Replicas and DynamoDB Global Tables.
- Automated backup and recovery with AWS Backup, S3 Cross-Region Replication, and RDS snapshots for RPO/RTO compliance.
- Optimized cloud spend by 30% through rightsizing, Spot Instances, Reserved Instances, Savings Plans, CloudHealth, and ProperOps.
- Built CI/CD pipelines with Jenkins, Docker, Bash, Linux, AWS services, GitHub Actions, and GitLab CI, reducing deployment time by 40%.
- Performed security audits and implemented MFA, conditional access, secure SSH, key-based authentication, and firewall controls.

JetCamer LLC

Cloud Support Engineer | Cloud Architect | Software Engineer

Oakley, CA | Apr 2019 - Apr 2021

- Designed and deployed secure, scalable AWS infrastructure for 5+ enterprise clients, supporting WordPress microsites and business applications with Terraform and CloudFormation.
- Automated infrastructure deployments with Terraform modules, reducing deployment failures by 15% and improving reliability across EC2, RDS, ECS, and multi-AZ environments.
- Enforced least-privilege access with AWS IAM, GuardDuty, Prisma Cloud, AWS Secrets Manager, and Vault.
- Built event-driven architectures with SQS and EventBridge for enterprise client workloads.
- Improved incident response time by 35% through CloudWatch and ELK Stack observability.
- Automated database schema migrations with Flyway and Jenkins, reducing deployment errors by 25%.
- Built Lambda functions for cost optimization, saving 25% on monthly AWS spend.

- Developed shell scripts to automate routine Linux administration tasks, saving roughly 15 hours per week.
- Integrated Okta SSO with AWS, Kubernetes, and SaaS platforms to streamline authentication and RBAC.

Allied Universal

Access Control Shift Lead | Site Supervisor

Santa Clara, CA | Mar 2017 - Mar 2019

- Managed access control and monitoring operations for high-security data center environments with strong uptime and security expectations.
- Coordinated operational tasks through ServiceNow and Outlook while monitoring CCTV and access systems.
- Created, updated, and managed user access, authorization workflows, documentation, and audit procedures.

BIOPHARCAM Ltd.

Computer Repair and Networking Installer

Douala, Cameroon | Sep 2011 - Jan 2017

- Repaired and installed hardware, software, and networking equipment for customer environments.
- Configured computers and peripherals for internal and external networks and supported performance troubleshooting.
- Built early experience in system configuration, customer support, and infrastructure operations.

EDUCATION

Bachelor of Science, Computer Science and Networking

Institute Supérieur de Management, Douala, Cameroon

Associate Degree, Maintenance and Computer Repair

Institute Supérieur de Management, Douala, Cameroon

AWS Cloud Practitioner, Cloud Architecture, and Cloud Computing Certificate

CloudSpace Academy, Manassas, VA

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate
- AWS Certified Cloud Practitioner
- HashiCorp Terraform Certified Associate: HCTAO-002
- Python Entry-Level Programmer: PCAP

LANGUAGES

English: Fluent | French: Fluent

AWARDS & HONORS

- 2022 Third Best Student, CloudSpace Academy Boot Camp: Hackathons & Quizzes
- 2018-2022 Best Employee, Digital Realty / Allied Universal: Multiple EDGE Training Certificates