




TSHEPO TAU

Cloud Engineer | DevOps Engineer

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PROFESSIONAL SUMMARY

AWS Certified Solutions Architect with 2+ years of hands-on experience designing, deploying, and optimizing scalable cloud infrastructure. Proven expertise in infrastructure as code (Terraform), CI/CD pipelines, and full-stack application deployment.

TECHNICAL SKILLS

Cloud & DevOps: AWS (EC2, S3, VPC, Lambda, API Gateway, CloudFront, IAM, Route 53, DynamoDB, RDS, CloudWatch), Terraform, Docker, Jenkins, GitHub Actions

Programming: Python, JavaScript/TypeScript, Bash, YAML, SQL

Web Technologies: React, Node.js, REST APIs, WebSocket

CLOUD ENGINEERING PROJECTS

ArtBurst - Real-Time Hyperlocal Auction Platform | [\[Live Demo\]](#) | [\[GitHub\]](#)

Serverless AWS Architecture | React/TypeScript | Terraform

- Engineered real-time bidding system using AWS WebSocket API handling 100+ concurrent connections with <200ms latency
- Architected serverless infrastructure with Lambda, API Gateway, and DynamoDB, reducing operational costs by 40%
- Implemented CI/CD pipeline with automated testing, cutting deployment time from 30 minutes to 5 minutes
- Secured platform with AWS Cognito authentication and PayFast payment integration

NBA Data Lake - Data Analytics Platform | [\[GitHub\]](#)

AWS Data Lake | Python | S3 | Glue

- Built scalable data lake architecture ingesting 10GB+ of NBA statistics using AWS S3 and Glue Crawlers
- Processed and transformed raw game data using AWS Glue ETL jobs, reducing data preparation time by 65%
- Designed Athena queries for advanced player performance analytics, enabling real-time statistical insights

- Automated data pipelines with Lambda functions, ensuring daily updates with 99% data accuracy

Construction Project Management System | AWS | Terraform | Python | [[GitHub](#)]

- Designed auto-scaling web application serving 1,000+ users with 99.9% availability
- Automated infrastructure provisioning using Terraform, reducing setup time from 4 hours to 15 minutes
- Developed Python monitoring scripts and automated backups, decreasing operational overhead by 40%

PROFESSIONAL EXPERIENCE

Cloud Engineer | Freelance & Personal Projects | 2023 – Present

- Designed and deployed 3+ production-ready cloud applications on AWS using infrastructure as code
- Optimized cloud spending through resource right-sizing and monitoring, achieving 25% cost reduction
- Implemented DevOps practices including CI/CD, containerization, and automated testing

Systems Support Officer | iCAM Video Telematics | Jan 2022 – Jan 2023

- Provided technical support for telematics systems serving 500+ clients and 50+ technicians
- Automated daily health checks using Python scripts, reducing manual verification time by 60%
- Implemented quality assurance processes, improving system reliability by 30%
- Developed technical documentation, reducing query resolution time by 25%

EDUCATION & CERTIFICATIONS

AWS Certified Solutions Architect – Associate | Amazon Web Services | 2024
Kubernetes and Cloud Native Associate | Linux Foundation | 2025
AWS Certified Cloud Practitioner | Amazon Web Services | 2023
AWS Cloud Engineering Program | ALX | 2023-2024

KEY ACHIEVEMENTS

- Reduced cloud infrastructure costs by 25% through automated monitoring and resource optimization
- Engineered high-availability systems serving 1,000+ users with consistent sub-second response times
- Automated deployment processes, reducing manual setup time by 70% and improving deployment frequency

References available upon request