

Mandla Ndhlovu

Cloud Engineer | Full-Stack Web Developer

Johannesburg, South Africa

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Technical Skills

Cloud Platforms: AWS (IAM, S3, EC2, CloudFormation, ECS, CodePipeline, Secrets Manager, Parameter Store, CloudWatch)

Web Development: HTML, CSS, JavaScript, Tailwind CSS, Bootstrap, React, Three.js, GSAP

Back-End & Databases: Django, Node.js, MySQL, DynamoDB, REST APIs

DevOps & Tools: Linux, Bash, Git, CI/CD, NGINX, Terraform, Monitoring & Logging

Project Experience

Serverless Email Campaign System (AWS Cloud)

Developed a full-stack serverless email marketing system using AWS. Users can add subscribers to DynamoDB, manage email templates in S3, and launch campaigns via SES. Solved CORS and integration issues using proper IAM roles and CloudWatch debugging.

Tech: Lambda, API Gateway, S3, DynamoDB, SES, CloudWatch

Auto-Scaling Django API on EC2 (AWS Cloud)

Built infrastructure using CloudFormation to deploy a Django REST API with high availability. Used EC2 Auto Scaling Groups, ALB, and health checks. Future improvement: migrate to ECS Fargate.

Tech: CloudFormation, EC2, ASG, ALB, Django, CloudWatch

SSH Access with Bastion Hosts (AWS Cloud)

Deployed secure VPC with Bastion Hosts for private EC2 access across AZs. Learned internal routing, SGs, and route tables.

Tech: VPC, EC2, Subnets, IGW, Route Tables, SGs, SSH

MN Web Solutions (Web Dev)

Created a modern website for a web dev agency with Three.js and GSAP animations.

Tech: React, GSAP, Three.js

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AvantGarde Landscaping (Web Dev)

Built a sleek site for a landscaping company. Includes portfolio and quote request system.

Tech: HTML, CSS, JavaScript, Tailwind CSS

RoadToEsling.com (Web Dev)

Responsive site for a teacher placement startup with SEO and contact form integration.

Tech: HTML, CSS, JavaScript, Bootstrap, GSAP

Certifications

- Meta Front-End Developer (Coursera)
- Meta Back-End Developer (Coursera)
- AWS Cloud Essentials (AWS)