

Python and cloud engineer with production AWS and Django experience across QA, UAT and Production. I have delivered live government platforms – a multi-tenant citizen-services platform for the Office of the Premier, Mpumalanga, and a nationwide land-use system for CoGHSTA – owning both the application and the infrastructure underneath it.

3	10	3
AWS CERTIFICATIONS	GOV. DEPARTMENTS SERVED	ENVIRONMENTS OWNED

EXPERIENCE

Software Developer & Cloud Architect 2025 – Present
DevBridge (self-employed) · Pretoria, South Africa

Livi — Multi-Tenant Citizen-Services Platform IN PRODUCTION

Case management for the Office of the Premier, Mpumalanga – citizens submit by web and mobile; ten departments resolve through branded portals.

Single-application multi-tenancy – one Django deployment serving 10 departments across 30 subdomains, with isolated authentication and per-department theming enforced in custom middleware.

Automated SLA escalation – Celery Beat with Amazon MQ across 12 domain-partitioned queues escalates breaching cases without manual triage.

Queue migration – moved SQS → RabbitMQ (AMQP/pika) mid-project, rebuilding payload schemas, idempotency keys and audit tables.

Realtime & media – Server-Sent-Events chat over async Daphne with Redis pub/sub; AWS Rekognition gating inbound media.

Mobile API – DRF with token auth, on ECS Fargate via CloudFormation.

CORE STACK

Python Django
DRF Celery AWS
PostgreSQL Docker
CI/CD

SKILLS

LANGUAGES

Python (expert), Java, JavaScript, C# (.NET MVC), Kotlin, SQL, Delphi

BACKEND

Django, DRF, Celery, ASGI/WSGI, Django Channels, REST API design, Paystack API, Bootstrap

AWS

ECS Fargate, Lambda, S3, EFS, RDS, ElastiCache, SQS, SNS, EventBridge, SES, CloudFront, Route 53, ACM, IAM, KMS, Secrets Manager, SSM, Rekognition, CloudWatch, CloudFormation, WAF

DATA

PostgreSQL, PostGIS, MySQL, Redis, pgvector

MESSAGING

RabbitMQ, Amazon MQ, SQS, Celery queues, Server-Sent Events

DEVOPS

Docker, Git, GitHub Actions, CI/CD, CloudFormation, Azure, Infrastructure as Code

e-PGLUM — Planning & Land-Use Management

EPGLUM.CO.ZA

Nationwide land-development and building-plan system for South African municipalities. Live for CoGHSTA, Mpumalanga. Owned the full AWS estate across QA, UAT and Production in a team of seven.

Configurable workflow engine — database-modelled stage transitions via Django signals across a 96-form government codebase, with Python mixins for rapid form assembly.

Full AWS environment — VPCs, private-subnet RDS (PostGIS), ElastiCache, ECS Fargate, ALB, S3/EFS, Route 53, ACM and WAF tuned for production traffic.

Async document pipeline — Celery-queued S3 uploads with presigned retrieval; tuned CloudFront → ALB → Gunicorn timeouts for 20 MB+ files.

Nightly statistics pipeline — Celery Beat aggregation into structured RabbitMQ payloads, with Excel and PDF reporting.

Infrastructure migration — AWS Copilot CLI → standalone CloudFormation with DRY bash scripts ahead of Copilot EOL.

The Workplace Basics — Commerce & Publishing

Django e-commerce and publishing platform for public-sector educational content; the technical foundation for every system that followed.

Payments & subscriptions — full Paystack lifecycle with HMAC-SHA512 webhook verification and tiered free/premium access over JWT-backed sessions.

Async & media — S3 presigned URLs with lifecycle policies and Pillow thumbnails; Celery + Redis dispatch, Papertrail logging, Dockerised via Compose.

Community Web Modernization

6 SITES · PRO BONO

Annual programme replacing outdated, insecure sites for community organisations — schools, churches, NGOs, sports clubs — with static sites on Cloudflare edge CDN: automatic HTTPS and DDoS protection, no server or database attack surface, Git push-to-live and full source handover.

CERTIFICATIONS

AWS Certified Solutions Architect — Associate

AWS Certified Developer — Associate

AWS Certified Cloud Practitioner

Microsoft Certified: Azure Fundamentals (AZ-900)

CompTIA Network+

CompTIA Project+

Microsoft AI Skills Fest — Building AI Agents

PURSuing — 2026

IN PROGRESS

AZ-204 Azure Developer, CompTIA Linux+, HashiCorp Terraform Associate, Bash & shell scripting

PLANNED

Kubernetes, Jenkins CI/CD, Firebase & NoSQL modelling

DOSSIER

Full technical write-up of these systems: [technical portfolio \(PDF\)](#)

EDUCATION

Varsity College 2021 – 2023
BSc Computer & Application Development – software engineering, cloud development (Azure), network engineering, advanced databases, Android (Kotlin), application security, IT project management, C# (MVC).

University of Pretoria Jan – Jun 2025
Short course – Programming Languages & Artificial Intelligence.

Abbotts College Completed
High school – IT & computer science (Delphi, console and PC application development).

SELECTED ACADEMIC PROJECTS

Genetic Algorithm Stock Trader – genetic-programming system evolving trading strategies via tournament selection, crossover and mutation, scored on F1 fitness (Java).

Vehicle Routing Optimizer – ant-colony-optimization solver for multi-vehicle routing with time constraints and dynamic pheromone-trail management (Java).

TSP Metaheuristic Solver – simulated annealing against tabu search on the Travelling Salesman Problem, with seeded benchmarking (Java).

REFERENCES

Ronald Conco ARCHITECT · LEAD	Gave architectural direction on the e-PGLUM and OTP projects.
Miyelani Maphophe SENIOR DEVELOPER	Worked alongside on both the e-PGLUM and OTP projects.
Tharage Godfrey SENIOR DEV · PM	Assigned and coordinated project work on e-PGLUM and OTP.

Contact details available on request.

AVAILABILITY

Open to opportunities; available for hybrid or remote work in the Centurion / Pretoria area.

ELSEWHERE

devbridge.co.za
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CONTACT

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