

Folayan Donald | Backend Software Engineer

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WORK EXPERIENCE

Postpaddy - [Website](#)

Nov 2023 - Present

Backend Developer - Remote

- Engineered and deployed Nara, an AI-powered content generation engine using Django, DRF, and NLP, increasing user engagement by 30%.
- Designed and optimized a scalable backend with asynchronous job queues (Celery + Redis), reducing AI inference latency by 40%.
- Developed and maintained RESTful APIs using Django REST Framework, enabling seamless integration of frontend dashboards and third-party services.
- Built an AI credits system with integrated payments via Paystack and Stripe APIs, enabling monetization of generative content features.
- Delivered an internal cross-platform management dashboard with tools for automated post scheduling, AI idea prompts, and social interaction handling.
- Implemented role-based access control, custom serializers, and background workers to improve modularity and system resilience.
- Wrote comprehensive unit and integration tests covering core AI inference, credit management, and API endpoints, achieving high test coverage and reducing regressions.
- Containerized and deployed the application with Docker, establishing reproducible environments and streamlining CI/CD pipelines.

PERSONAL PROJECTS

LeaseMatch - [Github](#)

- Designed and implemented a custom auth system with UUID-based IDs and role-based access control.
- Implemented JWT authentication storing tokens in HttpOnly cookies and enabling token blacklisting on logout.
- Integrated Google OAuth2 and built Redis-backed OTP flows for email verification and password resets.
- Built OTP-based email verification workflows for registration and password reset, leveraging Redis caching for secure, time-limited codes.
- Developed account-lifecycle endpoints (deletion scheduling, cancellation, reactivation) and automated cleanup/notification tasks with Celery.
- Structured the codebase into modular Django apps and utilities, and wrote unit/integration tests covering all auth flows and edge cases.

Django SaaS Application - [Github](#)

- Designed and implemented Django ORM models for tiered plans, trials, cancellations, and real-time subscription status tracking.
- Integrated Stripe for secure checkout sessions, recurring billing, and automated subscription lifecycle management.
- Built reusable views and templates for pricing pages, subscription dashboards, and account settings, enforcing role-based access via Django auth.

- Created management commands to sync permissions and purge stale subscriptions, and optimized PostgreSQL queries for multi-tenant filtering.
- Established CI/CD pipelines with GitHub Actions, containerized with Docker, and wrote unit/integration tests covering billing and subscription workflows.

Capstone: AKS Microservices Deployment - [Github](#)

- Provisioned Azure infrastructure using Terraform, defining modular configurations for Resource Groups, VNets, NSGs, and an AKS cluster.
- Automated deployments with GitHub Actions workflows (deploy.yml, update.yml, destroy.yml) executing terraform init/plan/apply and managing Kubernetes manifest rollouts.
- Deployed the "Socks Shop" microservices demo on AKS using Helm charts, configured NGINX Ingress, and secured HTTPS with cert-manager and Let's Encrypt.
- Integrated Prometheus and Grafana via Helm for real-time metrics and alerting, ensuring full-stack observability.
- Managed secrets with Azure Key Vault and service principal-based access, injecting credentials securely into Terraform and Helm deployments.

TECHNICAL SKILLS

- **Programming & Frameworks:** Python (Django, Django REST Framework, Celery), Javascript (Vanilla), HTML5, CSS3, Tailwind CSS
- **Cloud & Devops:** Docker, CI/CD (Github Actions), Kubernetes, AWS, Azure
- **Database & Caching:** PostgreSQL, MongoDB, Redis
- **Testing & Debugging:** Unit Testing, Integration Testing (Pytest, Postman)
- **Version Control & Collaboration:** Git, Github, Gitlab
- **Other Tools & Technologies:** Linux/ Unix, Bash Scripting

EDUCATION

University of Ibadan: Bachelor of Science in Electrical and Electronic Engineering	Jul 2023
AltSchool Africa: Diploma in Cloud Engineering	Aug 2024