

# EMMANUEL TEYE NARTEY

## SOFTWARE ENGINEER

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### OBJECTIVE

Backend-focused Software Engineer with 4+ years of experience building scalable applications, automating DevOps workflows, and optimizing infrastructure. Proven success in remote teams and cross-functional collaboration.

### EXPERIENCE

#### Lead Software Engineer (Backend) – (Remote Contract)

BPO Homes (California) | Jan 2023 - Present

#### Responsibilities

- Conducted a performance analysis of server infrastructure, implementing optimizations that reduced server downtime by 30%.
- Led development of a real-time data analytics dashboard using Django, PostgreSQL, and AWS, enhancing team efficiency by 20% and cutting operational costs by 10%.
- Analyzed security system performance logs and resolved bottlenecks, leading to a 50% improvement in security incident response times.
- Streamlined project workflows with a new management system, accelerating project turnaround by 25%.
- Enhanced code quality through rigorous reviews, identifying and eliminating 400+ defects and reducing bug-fixing time by 30%.
- Optimized AWS-hosted web assets (EC2, S3, CloudFront), resulting in a 40% boost in user engagement through faster load times and improved functionality.

### TECHNICAL SKILLS

#### LANGUAGES:

Python, JavaScript, SQL, Bash

**DATABASES:** PostgreSQL, MySQL, MongoDB, Redis

#### FRAMEWORKS & LIBRARIES:

Django, Django Rest Framework, FastAPI, Flask, SQLAlchemy, Pydantic  
JavaScript: React, Node.js, JQuery, GraphQL

#### AI/ML FRAMEWORKS:

PyTorch, Scikit-learn, TensorFlow, OpenCV

#### NATURAL LANGUAGE PROCESSING:

Text Classification, Sentiment Analysis, Named Entity Recognition

#### WEB TECHNOLOGIES:

REST API, JavaScript, HTML, CSS, JSON, XML

#### DEVOPS & CLOUD:

AWS, Azure DevOps, Docker, Nginx, Apache, Gunicorn, CircleCI

#### VERSION CONTROL & CI/CD:

Git, GitHub, Jenkins, Azure DevOps

#### ADDITIONAL TOOLS:

Postman (API Testing), Celery (Task Queue), Redis (Caching)

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### Software Engineer Backend (Remote)

Kayak Technology Group (USA) | September 2022 - Present

#### Responsibilities

- Designed and maintained PostgreSQL databases with Django ORM to optimize application performance.
- Integrated Zoho CRM and third-party tools into Carbon Tool accounting software via REST APIs, improving functionality by 25%.
- Deployed live projects in Docker containers, reducing deployment time by 40% and improving infrastructure efficiency.
- Developed CI/CD pipelines using GitHub Actions, CircleCI and AWS, ensuring seamless integration and deployment.
- Spearheaded the creation of automated test suites, ensuring zero production downtime for the applications.
- Scaled AWS EC2 infrastructure to support 200% user growth with auto-scaling configurations.

### Senior Software Engineer (Backend) – (Remote)

Hepeps IT Solutions (Norway / Ghana) | May 2021 - August 2022

#### Responsibilities

- Established standardized documentation and testing processes to improve team efficiency.
  - Revamped website architecture, increasing traffic by 40% and decreasing bounce rates by 30% through enhanced UX/UI design and performance optimizations.
  - Improved code quality by implementing structured development practices, reducing software defects by 20% and minimizing production downtime by 40%.
  - Enforced coding best practices using Git pre-commit hooks, Flake8, Black and automated testing workflows.
  - Delivered strategic website optimizations that enhanced security, performance, and overall system reliability.
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### EDUCATION

Koforidua Technical University  
HND Computer Science  
September 2016 - July 2019

Cisco CCNA Certified  
November 2017

(ISC)<sup>2</sup>  
Certified in Cybersecurity May 2023

Kwame Nkrumah University of  
Science & Technology  
BSC Computer Science  
February 2023- September 2025

### PROJECTS

BPO Homes / BPO Tech Platforms  
(bpohomes.com, bpotech.io)

- Developed high-performance Django REST APIs with PostgreSQL, optimizing query speeds by 45%.
- Implemented JWT authentication, Redis caching, and AWS cloud infrastructure (EC2, S3, CloudFront) for scalable solutions.

Kayak Technology Group  
(carbontool.com, tuulbox.app)

- Built microservices using FastAPI/Django with Zoho CRM integrations.
- Integrated Celery task queues, Dockerized deployments, and CI/CD automation for scalable application management.
- Scaled AWS EC2 instances to support 200% platform growth.

Hepeps IT Solutions (Hospital  
Information Management System)

- Engineered a secure Django backend for medical records management
- Designed custom SQL-based analytics and integrated REST APIs for a seamless React frontend experience.
- Deployed to multiple hospitals in Ghana with built-in claims processing and secure data handling.

