

ADJEI BISMARCK NII ADJETEY OTOPAH

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PROFILE

I am a versatile and results-oriented Backend Developer and Data Analyst with hands-on experience designing and developing secure, scalable backend systems and extracting actionable insights from complex data. Specialized in building APIs, microservices, and event-driven architectures using Java (Spring Boot), and integrating relational and non-relational databases like MySQL, and PostgreSQL.

Skilled in leveraging RESTful APIs, OAuth2, and JWT authentication for secure communication in fintech and data-heavy applications. Strong understanding of system architecture.

As a data analyst, proficient in SQL, Pandas, NumPy, Excel, Power BI, and Matplotlib to analyze trends, create dashboards, and support data-driven decision-making. Known for bridging the gap between engineering and analytics by delivering backend systems that power intelligent insights.

Actively seeking opportunities to contribute to innovative teams, particularly in fintech, e-commerce, or enterprise SaaS, where backend performance and data integrity are mission-critical.

EDUCATION

BSc. Computer Science *Expected November 2027*

Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

W.A.S.S.C.E (General Science) *January 2021 – September 2023*

Our Lady of Grace Senior High School, Mampong, Ghana

B.E.C.E *September 2020*

El-Goshen School Complex

WORK EXPERIENCE

Intern — Electricity Company of Ghana (ECG), Eastern Region (Nsawam)
October 2024 – December 2024

- Assisted in the preparation of statements and reports, ensuring compliance with company policies and regulations
- Supported data cleaning processes and maintained databases
- Conducted customer segmentation analysis

Intern — Smart Hive Labs, Western Region(Prestea)
August 2025 – Still on going

- Integrated Supabase for authentication and storage.
- Designed scalable backend architecture for future SaaS expansion.
- Coordinated with mobile and web teams to ensure shared API usage.
- Handled key business logic including matching, tasks, chat, notifications, and transactions.
- Designed and implemented relational database schema (Users, Skills, Tasks, Messages). Created SQL migrations and ER diagrams using PostgreSQL.
Developed /messages endpoints using WebSockets for realtime chat functionality.
- Designed chat schema and ensured end-to-end communication between clients.
Integrated AI microservice (Flask/FastAPI) into backend for intelligent task matching.
- Built /match endpoint to connect backend services with AI models

ACHIEVEMENTS / AWARDS

- **Best Student House Chaplain** — Our Lady of Grace SHS, *15th August 2024*
- **Certificate of Appreciation, Editor-In-Chief** — Computer Science Society, KNUST

PROJECTS / RESEARCH EXPERIENCE

Investigating the Effect of COVID-19 in the Educational Sector

The study investigated the effect COVID-19 has caused in the educational sector. One major effect was the closure of schools and transition to online learning which wasn't also effective.

PROFESSIONAL TRAINING / CERTIFICATION

- **Data Analytics – *In Progress***
Coursera
 - **Data Analytics & Financial Literacy – *20th May – 20th June 2024***
CognoRise InfoTech / Singapore University of Social Sciences
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LEADERSHIP EXPERIENCE

- **House Chaplain** — Our Lady of Grace SHS *September 2022 – September 2023*
 - **Head of Editorial Committee** — Computer Science Society, KNUST
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VOLUNTARY / EXTRA-CURRICULAR ACTIVITY

- **First Years Orientation** — Assisted in coordinating student mobility *January 2024*
 - **Rotary Club Donations** — Supported donation logistics *May 2020*
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SKILLS & ABILITIES

- **Programming & Backend:** API Development, RESTful APIs, Authentication & Security, System Architecture, Database Management
 - **Data Analysis Tools:** Excel, SQL, R-Language, Pandas, NumPy
 - **Data Visualization:** Power BI, Matplotlib
 - **Statistical Analysis:** Hypothesis Testing, Regression, A/B Testing
 - **Software Practices:** Version Control with Git, Team Collaboration & Code Review
 - **Database Design:** Data Modeling & Schema Design
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REFEREE

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KNUST

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