

# 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.

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## 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, Mamponteng, Ghana

**B.E.C.E**      *September 2020*

El-Goshen School Complex

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## WORK EXPERIENCE

**Intern** — Electricity Company of Ghana (ECG), Eastern Region (Nsamaw)  
*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

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## ACHIEVEMENTS / AWARDS

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

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## PROFESSIONAL TRAINING / CERTIFICATION

- **Data Analytics – In Progress**  
Coursera
  - **Data Analytics & Financial Literacy – 20th May – 20th June 2024**  
CognitoRise 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

**Mr. Gyamfi Agyemang**

KNUST

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