

BAYODE ADEMOLA MICHAEL

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PROFESSIONAL SUMMARY

Bayode Is a motivated **Software Engineer** with 4+ years' experience building and maintaining software applications. With proven ability to deliver high-quality code using PHP (Laravel, Livewire, Filament, etc.), JavaScript (Vue, Vanilla, React). He has successfully implemented features that has increased software systems by 20%. Adept at problem-solving and collaborating in a fast-paced environment.

TECHNICAL SKILLS: PHP | Python | SQL | GIT | JavaScript | Cloud | API | Power Platforms.

EDUCATION

Bachelor's Degree, Computer Sciences.
University of Lagos.

Expected Graduation, April 2025

Coursework: Machine Learning, Software Engineering, Data Structures and Algorithms, Parallel and Distributed Systems, Computer Architecture, Compilers, Project Management, Networking Systems, Database systems, Data Science, Statistics.

PROJECTS

- **MACHINE LEARNING:** Developed a restaurant review and feedback model using Python NLP for analysis.
- **INVESTIGATING A DATASET:** <https://github.com/Boss-Mike/Investigate-a-dataset-Data-Analysis->
- **OTHERS:** [Barcode generator, To-do List app, PlayStation Landing page, Calculator, Fizz-Buzz game, etc.].
- **CURRENT PROJECTS:** Building a LLM Supply Chain with **Python**, **LangChain** and **MongoDB** to implement **RAG (Retrieval Augmented Generation)**. Developing a Logistics App using **Google maps API**, and **ReactJS**.

EXPERIENCE

Software Engineer Cloud-Tech Africa.

Mar 2024 – *present*

Leveraging expertise in **PHP** Laravel, **Python**, and **MySQL**, I spearheaded the development and maintenance of critical Back-end systems, driving efficiency and innovation.

- Architected and built scalable web applications: - Designed and implemented APIs using Laravel, ensuring smooth integration with front-end applications.
- Owned problem-solving and troubleshooting: • Independently diagnosed and resolved complex back-end issues, minimizing downtime and maximizing user experience.
- Utilized Python for specific functionalities requiring its strengths, fostering a tech stack that empowers optimal solutions.
- Championed code quality and maintainability: - Implemented clean code principles and unit testing frameworks to ensure code clarity and long-term maintainability.
- Promoted a collaborative code review culture, fostering continuous improvement.
- Optimized database performance: - Engineered efficient queries and database structures using MySQL, minimizing latency and ensuring data accessibility with an enhanced system performance.

Data Engineer Data Science Network, NG.

April 2022 - Mar 2024

Large Language Model Development • Architected and built the data pipeline for a large language model (LLM) using Python, leveraging my expertise in data wrangling and manipulation techniques.

- Championed the adoption of Vector databases (Pinecone, Faiss) for efficient storage and retrieval of massive text embeddings, significantly improving the LLM's training efficiency.
- Utilized Jupyter Notebooks as a collaborative environment for data exploration, experimentation, and model training, fostering a transparent and reproducible development process.
- Pioneered the integration of Llama 3 (or other memory-efficient machine learning libraries) to optimize LLM training on resource-constrained environments, enabling cost-effective model development.
- Successfully migrated the LLM training infrastructure to Microsoft Azure for scalability and high availability, ensuring smooth model training cycles.
- Collaborated closely with Machine Learning Engineers to bridge the gap between data preparation and model training, leading to a more cohesive and efficient LLM development process.
- Documented and presented the data engineering aspects of the LLM project to both technical and non-technical audiences, effectively communicating complex concepts.

Software Engineer Dr Wells, NG

Jan 2019 - Mar 2022

Developed and implemented critical features for core software product using Python, leveraging my proficiency in object-oriented programming principles.

- Independently identified performance bottlenecks within the codebase and spearheaded the optimization process using profiling tools, resulting in a 20% reduction in processing time.
- Championed the adoption of Git within the development team, conducting internal workshops and migrating the codebase, fostering a collaborative and version-controlled development environment.
- Utilized Microsoft Azure cloud platform to create and manage a scalable and cost-effective infrastructure for Data Analytics Platform implementing tools like (Azure Databricks, Azure Data Lake Storage), ensuring high availability and reliability for our users.
- Proactively researched and implemented new technologies and libraries relevant to project needs, staying ahead of the curve and contributing to the team's technical expertise.
- Actively participated in code reviews, providing constructive feedback to elevate team code quality.
- Collaborated effectively with cross-functional teams (e.g., QA, product management) to ensure seamless integration and delivery of software solutions.

VOLUNTEER ACTIVITIES

International Member Global AI Hub, Zurich Switzerland

Mar 2022 – Present

Global AI Hub is an international network of Artificial Intelligence experts and talents. The community delivers knowledge and improved implementations to developers by providing access to programs by global education partners such as **Amazon, Google, TATA**, etc.

CERTIFICATIONS

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| • IBM: Data Science, | 2022 |
| • UDEMY: Python Programming, | 2020 |
| • UDEMY: Web Development, | 2020 |

AWARDS

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| • Google Cloud Innovator | 2024 |
| • GDSC [Google Developers Students Club] Core team member. | 2023/24 |