AKARAIWE BRIGHT CHIDOZIE

Software Developer | AI Research Engineer | Data Scientist | Technical Writer

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SUMMARY

Software Developer, AI Research Engineer, Data Scientist, and Technical Writer with 5+ years of experience designing, building, and optimizing full-stack applications, machine learning models, and data-driven solutions. Completed 50+ projects delivering scalable, high-performance solutions for clients in the UK, US, Ghana, Ivory Coast, and beyond. Skilled in Python, FastAPI, ReactJS, React Native, NodeJS, ML/DL frameworks, cloud deployment, and technical documentation, with a proven track record of turning complex requirements into efficient, maintainable, and impactful solutions.

PROFESSIONAL EXPERIENCE

Software Developer – Cool Lion Energies – Hybrid (Abidjan, Ivory Coast)   09/2025 – Present
- Built and deployed 3+ full-stack websites within one month, developing frontend and backend features using FastAPI, ReactJS, NextJS, NodeJS, Python, and JavaScript, and integrating authentication, dashboards, and API services.
- Designed scalable system architectures supporting multiple applications, dozens of API endpoints, and concurrent users, improving maintainability, performance, and security across production environments.
- Wrote and maintained hundreds of lines of clean, reusable code, executed unit, integration, and system tests, resolved numerous production and staging bugs, and managed collaboration across multiple Git repositories.

Software Developer | Technical Writer – Athena R&T Solution – Remote (London, UK)   12/2023 – 01/2026
- Developed custom backend-driven web applications using FastAPI, delivering multiple client projects with RESTful APIs, structured database schemas, and modular service layers.
- Collaborated with designers, developers, and project stakeholders across several projects, participating in regular code reviews and maintaining multiple repositories using Git workflows.
- Produced and updated 10+ technical documents including system specifications, API documentation, installation guides, and troubleshooting manuals, translating complex engineering concepts into clear documentation for technical and non-technical users.

AI Research Engineer (ML & DL) – Urban Research – Remote (London, UK)   11/2023 – 12/2025
- Designed, trained, and optimized 7+ AI and machine learning models, including AI content humanizers, AI-generated text detectors, and phishing detection systems, using neural networks, ensemble models, and DL architectures.
- Built end-to-end ML pipelines handling thousands of data samples per experiment, covering data preprocessing, feature engineering, model training, evaluation, and iteration.
- Conducted applied research through dozens of controlled experiments, benchmarking multiple algorithms and architectures, documenting findings, and improving model robustness and deployment readiness.

Data Scientist | Technical Writer – Livingston Research – Remote (UK)   08/2019 – 10/2024
- Collected, cleaned, and analyzed research datasets containing 10,000+ records across 20+ academic and technical projects, using Python, R, SAS, SPSS, RapidMiner, Excel, and Tableau for data transformation, statistical analysis, visualization, and reporting.
- Supported numerous research studies and technical projects by developing data analysis workflows, basic predictive models, and automation scripts, maintaining datasets, file systems, and version-controlled research repositories.

- Authored and maintained extensive technical documentation including experiment logs, system configurations, literature reviews, research reports, and academic papers, contributing to multiple publications, and presentations.

PROJECTS

- **Adinkra Fellowship** – adinkrafellowship.com
  Developed a fully responsive website to showcase fellowship programs, integrate application forms, and optimize user experience for international applicants. Improved application submission efficiency and visitor engagement.
- **PosiWorks** – posiworks.org
  Built and maintained an interactive platform for showcasing projects and services, incorporating a dynamic content management system and responsive design for multi-device access.
- **CoinWatch** – coinwatch.richardseshie.com
  Developed a cryptocurrency tracking platform with real-time data integration, interactive dashboards, and secure user interface for investors and enthusiasts.
- **CoinWatch API** – coinwatchapi.richardseshie.com
  Designed REST endpoints serving hundreds of API requests per day, optimized for low latency and structured JSON responses.
- **Yochi** – yochi.richardseshie.com
  Built a cryptocurrency informational and analytics website, featuring interactive charts and responsive design for improved user engagement.
- **Nanacoins** – nanacoins.richardseshie.com
  Designed a crypto-focused website integrating market trends, user-friendly dashboards, and secure navigation for cryptocurrency users.
- **Athena R&T Solution** – anthenart.com
  Created an end-to-end e-commerce website including product catalog, secure checkout, and performance optimization. Enhanced user engagement and conversion through modern UI/UX design.
- **Mechozi Naturals** – mechozinaturals.com
  Designed and launched a brand website highlighting natural products, integrating an online store and content marketing features to increase online visibility.
- **Nourish for Education** – nourishforeducation.org
  Developed a non-profit platform to facilitate donations, volunteer engagement, and information dissemination for education initiatives.
- **SolonDev** – solondev.com
  Built a portfolio and service showcase website for a tech consultancy, incorporating responsive design, service categorization, and SEO optimization.
- **ProofStream Lite** – https://proofstreamlite.onrender.com/
  Developed a lightweight document verification and tracking platform to store, retrieve, and validate digital records securely.
- **Intelligent Hybrid Phishing Detection System** – https://intelligent-hybrid-phishing-detector.onrender.com/
  Built a machine-learning phishing detection system with rule-based and supervised models, trained on thousands of samples, and deployed a web interface for real-time URL and text scanning.
- **Task Management Web Application** – https://taskmanagementapp-4vfh.onrender.com/
  Designed and deployed a full-stack task management platform supporting user authentication, task creation, updates, and deletions, improving personal and team workflow efficiency.
- **100% Anime** – https://anime-sw4u.onrender.com/
  Built a dynamic web application for streaming and exploring anime content.

AWARD

- **Best Python Programmer** – Nigeria Employer Consultative Association (NECA) - Unites.   **11/2024 / 11/2025**
  2 times award for exceptional performance in Python development

PUBLICATION

- Akaraiwe, B. (2026). Secure Wireless Design for a Multi-Tier Enterprise: Practical Flaws, Tests, and a Defence-In-Depth Proposal. *Journal of Network and Computer Applications*. https://doi.org/10.5281/zenodo.18436229
- Akaraiwe, B. (2026). Scoops2GO Secure Development Cycle. In *Zenodo*. https://doi.org/10.5281/zenodo.18433126
- Akaraiwe, B., & Maduemezie, E. (2024). *Entrepreneurial Pathways And University-Affiliated Incubators: A Mixed-Methods Study on Green And Deep Technologies In Scandinavia*. pp. 1–57. Zenodo. https://doi.org/10.5281/zenodo.13840975
- Akaraiwe, B. (2026). *Web Design vs. Web Development: Which One Do You Really Need?* Anthenart.com. https://www.anthenart.com/blog/3

CERTIFICATION

- Software Engineering – Power Learn Project Africa   02/2025
- Python, Information Technology Specialist – Certiport   11/2024
- Oracle SQL Concepts and Commands – EDUCBA   05/2022
- Tableau Training – Skillup   05/2022
- R Programming – John Hopkins University   02/2021
- Python Specialization – University of Michigan   09/2019
- Capstone: Retrieving, Processing, and Visualizing Data with Python – University of Michigan   09/2019
- National Youth Services (NYSC) Discharge Certificate   04/2016

TECHNICAL SKILLS

- **Data Science:** Excel, SPSS, R, RapidMiner; Power BI, Tableau; SAS, MySQL, NoSQL, PostgreSQL, Anaconda
- **Programming:** Capacitor, Python, Dart with Flutter, HTML, CSS, Tailwind CSS, JavaScript, React.js, Node.js, Django, Laravel and FastAPI
- **ML & DL:** AutoML, OpenCV, DeepSpeech / Whisper, TensorFlow, Keras, PyTorch, Scikit-learn, XGBoost, Hugging Face Transformers
- **Payment Gateways Integration:** Paystack, Flutterwave, PayPal, Payoneer, Skrill
- **Cloud Deployment:** AWS, Firebase, Microsoft Azure
- **Tools:** RESTful APIs, Git, GitHub, Docker, CI/CD Pipelines, Hostinger, Microsoft Office, Google Workspace, Claude AI, ChatGPT
- **Cybersecurity:** Wireshark; Kali Linux, Metasploit; Shodan, Nmap, Splunk; ELK Stack; Snort; Suricata
- **Architecture:** AutoCAD, Revit; SketchUp, Rhino, ArcGIS, QGIS
- **Writing:** Technical Writing, Web Content, Research Writing

LANGUAGES

English – Fluent (IELTS 6.5)   **French** – Intermediate

EDUCATION

NVQ (Level 3): Mechanical Engineering – City and Guild – Lagos, Nigeria   05/2023

B. ED. Educational Technology – Lagos State University – Lagos, Nigeria   02/2015