Amidu Dabor

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**PROFESSIONAL SUMMARY**

Results-oriented Software Engineer, AI/ML Engineer, and Data Scientist with over 5 years of experience across telecom, ICT education, backend software development, and applied machine learning. Proven ability to build scalable, intelligent systems using Python, SQL, Vectorstore, TensorFlow, Keras, Scikit-learn, FastAPI, and cloud platforms including GCP, AWS, Azure, Modal, Weights & Biases, and Gradio. Skilled in deploying ML models, full-stack development, and deriving insights from data to support business decisions. Proven ability to deliver high-impact solutions, hands-on problem-solving, and collaborate across technical and business teams to drive measurable impact.

**SKILLS**

* **Artificial Intelligence & Machine Learning:** AI Engineering · Machine Learning · Deep Learning · Generative AI · LLM Fine-Tuning · Prompt Engineering · AI Automation · NLP · Predictive Modelling · Optimization & Quantization · RAG · LangChain · Hugging Face · Modal · AI Ethics & Compliance

**Frameworks/Tools:** TensorFlow · PyTorch · Keras · Scikit-learn · NVIDIA NeMo · ASR/TTS · Kubernetes (k8s) · NGC · GPU-Accelerated Pipelines

* **Data Science & Analytics:** Data Analysis · Statistical Modelling · EDA · Feature Engineering · Time Series Forecasting · Data Preprocessing · Data-Driven Decision-Making

**Tools & Platforms:** Python · SQL · Pandas · NumPy · SciPy · Matplotlib · Plotly · Seaborn · BigQuery ML · Gemini Models in BigQuery · Vertex AI · Power BI · Tableau · Weights & Biases · VS Code · Jupyter Notebook · Google Colab

* **Software Development & Backend:** Python (Django, Flask, FastAPI) · RESTful APIs · Microservices · Serverless Architectures · Docker · SQL · NoSQL · VS Code · PyCharm
* **Cloud & DevOps:** GCP · AWS · Azure · Vertex AI · Terraform · Ansible · Azure Resource Manager · Bicep · CI/CD Pipelines · Git/GitHub Actions/GitLab CI · Cloud Automation · Bash · PowerShell · ZeroTier Network
* **Additional Skills:** Mobile App Development (Flutter & Dart) · JavaScript · Java · C++ · R · Cross-Functional Collaboration · Problem Solving · Customer Service · Creative Writing · Ability to work independently · Attention to Detail · Strong oral, written and interpersonal communication skills

**EDUCATION**

**United States International University - Africa (USIU-Africa)**

*MSc., Information Systems and Technology (Software Engineering)*

**Jan 2023 - Jun 2025**

*Nairobi, Kenya*

**Njala University Oct 2016 - Jun 2020**

*BSc. (Honours)* · *Computer Science Freetown, Sierra Leone*

* **Achievements:** Graduated with Honours (Top 5%) · Distinction in Internship & Final Year Project · Dean’s List recognition

**Njala University Oct 2014 - Jun 2017**

*Higher Diploma* · *Information Technology Freetown, Sierra Leone*

* **GPA:** scoredup to 4.7/5.0
* **Achievements:** Graduated with Distinction · Consistently Top in Class with Dean’s List recognition

**WORK/PROJECT EXPERIENCE**

**Academic Coursework, Professional Training & Personal Projects Jan 2023 - Present**

*AI/Machine Learning/Data Science Nairobi, Kenya*

* Developed and deployed a **FastAPI-based regression model** to predict housing prices, integrating preprocessing, inference, and RESTful response delivery for real-time predictions.
* Designed and deployed **BERT-based semantic similarity models** using Hugging Face Transformers; achieved 73%+ accuracy by applying cosine similarity on [CLS] embeddings.
* **Developed an AI RAG Assistant** that delivers context-aware academic support using LangChain and vector-based retrieval.
* Conducted **MLOps experiments with Weights & Biases**, tracking training metrics, hyperparameters, and model performance to ensure traceability and reproducibility.
* Created **predictive analytics models** for customer purchase behaviour (conversion rate) and click-through rate (CTR) in social network ads, enabling targeted marketing strategies.
* Developed a **cancer diagnosis classifier** using XGBoost for binary tumor classification (malignant vs. benign).
* Built an **autonomous multi-agent deal finder** with real-time RSS feed alerts for dynamic opportunity tracking (best deals).
* Designed an **LLM-based source-to-source code translator** for optimizing software performance across programming languages.
* Built a **Django + JavaScript web app** for managing academic support tickets, including query logging and resolution tracking.
* **Analyzed startup profitability** **with linear regression** to uncover investment-impact patterns and financial correlations.
* Designed **interactive dashboards** with Power BI and Tableau for hotel management and to visualize HR workforce metrics, salaries, and operational KPIs.

**QCell (SL) Ltd Apr 2021 - Dec 2022**

*IT/Convergent Billing System (CVBS) Engineer Freetown, Sierra Leone*

Department: IT/Convergent Billing System (CVBS) Department

* Optimized service delivery by automating SFTP file detection and retrieval using Python and Cron jobs, demonstrating strong programming skills and a foundation for scalable algorithm development.
* Ensured 99.99% network uptime through proactive monitoring and prompt escalation of critical issues, reflecting robust analytical and problem-solving abilities essential for managing high-performance systems.
* Integrated a Subscriber Data Configuration (SDC) device with an ECR system to enhance data management and regulatory compliance, providing experience with meticulous data integration techniques relevant to predictive modelling.
* Delivered reliable customer service and support for thousands of subscribers, illustrating effective communication and cross-functional collaboration skills.

**Competency Development Services (CDS) May 2020 - Mar 2022**

*IT Instructor & System Support Freetown, Sierra Leone*

Department: IT Department

* Enhanced student engagement and digital literacy through practical, interactive IT training, leveraging modern technological tools to foster analytical and technical skills.
* Maintained 99.9% device uptime through proactive IT support, underscoring strong attention to detail and problem-solving capabilities.
* Refined the ICT curriculum through continuous updates and the integration of current technology practices, supporting collaborative development and a data-driven approach to educational innovation.

**LEADERSHIP & COMMUNITY ENGAGEMENT**

*Secretary General (Former) - Active member | Eminent Family Organization* **Jul 2012 - Present**

*Freetown, Sierra Leone*

* Coordinated and led outreach programmes, delivering educational materials to underserved schools.
* Organized community events such as debates, quizzes, and mentorship sessions to promote youth leadership, critical thinking, and civic engagement.
* Participated in the constitutional drafting and review process as a key contributor to the organization’s governance framework.
* Promoted inclusive participation by ensuring gender-balanced representation and effective stakeholder communication.

**HONOURS/RECOGNITIONS/WORKSHOPS**

* **BSc. in Computer Science, Njala University (Oct 2016 - Jun 2020)**: Graduated with Honours (Top 5%), Distinction in Internship   
  & Final Year Project, Dean’s List Recognition
* **Higher Diploma in IT, Njala University (Oct 2014 - Jun 2017)**: Graduated with Distinction, GPA up to 4.7/5.0, Consistently Top in Class with Dean’s List Recognition
* **Experts Live Kenya 2024** - Microsoft (Data & AI), Jul 2024 - Engaged in discussions on Data & AI, earning recognition and a commemorative t-shirt for contributions.
* **Google I/O Extended Nairobi 2024** - Selected Attendee (AI & Data), Jul 2024 - An exclusively organized event for developers and professionals, with engagements in advanced sessions on AI and Data.
* **Explore the Power of Technology** - Ericsson (Tech Trends & Career Networking), Sep 2024 - Engaged with industry leaders on tech trends, career opportunities, and skill applications while expanding professional networks.

**TRAINING CERTIFICATES**

* **LLM Engineering: Master Al, Large Language Models & Agents**: Udemy
* **Complete Data Science Bootcamp**: Udemy
* **Learn Everything about Al Bootcamp (AI & ML Training)**: Microsoft Learn Student Ambassador/DevTown
* **Workplace Professionalism & Career Development**: Riziki Source/Accenture

**LANGUAGE SKILLS**

* English (Highly proficient) · Krio (Native)