Amidu Dabor

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**PROFESSIONAL SUMMARY**

Results-driven Software Engineer and AI/ML specialist with over 5 years of practical experience spanning professional roles in telecom and IT education, complemented by hands-on project work and specialized training in large-scale software engineering, backend development, and applied machine learning. Proficient in Python, Django, Flask, FastAPI, Javascript, SQL, and Machine Learning tools, including Scikit-learn and TensorFlow. Experienced in deploying models and building data-driven solutions using cloud platforms, including Azure, GCP, AWS, Modal, and Gradio, driving innovation through collaborative, impact-oriented development.

**SKILLS**

* **Artificial Intelligence & Machine Learning:** AI Engineering · Conversational AI · Generative AI · NLP · LLM Fine-Tuning · AI Automation · AI agents · Prompt engineering · Predictive modelling · Optimization & quantization · RAG pipelines · LangChain · Hugging Face transformers · 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 · EDA · Data preprocessing · Feature engineering · Statistical modelling · Forecasting

**Tools & Platforms:** Python · SQL · Pandas · NumPy · SciPy · Matplotlib · Plotly · Seaborn · Azure ML studio · BigQuery ML · BigQuery ML · 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:** Azure · Azure DevOps · GCP · AWS · Vertex AI · IaC/Automation (Terraform · Ansible · Azure Resource Manager · Bicep) · CI/CD (Git · GitHub Actions · GitLab CI · Cloud Automation · Bash · PowerShell) · ZeroTier Network
* **Additional Skills:** Mobile App Development (Flutter & Dart) · Javascript · R · Java · C++
* **Soft Skills:** Ability to collaborate with teams across different time zones and geographies · Solid problem solving and debugging skills · Great attention to detail · Communication · Ability to work independently · Customer Service · Creative writing

**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**

**Independent Projects, Academic Research, and Professional Development Jan 2023 - Present**

*AI/ML Engineer and Applied Data Science Specialist Nairobi, Kenya*

* Built and deployed a FastAPI regression model for real-time housing price prediction with integrated preprocessing and RESTful inference.
* Delivered real-time academic assistance by developing a context-aware AI RAG and Study Assistant using LangChain and vector-based retrieval techniques.
* Achieved 73%+ accuracy in semantic similarity detection using BERT ([CLS] embeddings + cosine similarity) with Hugging Face Transformers.
* Tracked model performance and training metrics by running reproducible MLOps experiments with Weights & Biases.
* Built core functionality of a Django-JavaScript web app to manage academic support tickets; additional features, including advanced resolution tracking, are in progress.
* Achieved 96.7% accuracy in diagnosing breast cancer by building an XGBoost classifier for malignant vs. benign tumor detection.
* Achieved 95% accuracy predicting customer conversions and Click-Through-Rates (CTR) using Kernel SVM, driving targeted marketing strategies in social network ads.
* Designed an LLM-powered source-to-source code translator to optimize performance across languages (e.g., Python → C++).
* Built an autonomous multi-agent deal finder to track best offers via real-time RSS alerts.
* Built interactive dashboards in Power BI and Tableau to visualize hotel KPIs and HR metrics, driving data-informed decisions.
* Identified financial trends and investment-impact patterns in startup data using linear regression analysis.

**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.
* **Maintained “five nines” (99.999%) network uptime** by proactively monitoring critical systems, responding swiftly to incidents, and escalating issues as needed, ensuring high service availability and operational continuity in a telecom environment.
* Supported regulatory data accuracy by developing the front-end web app interface for integrating the Subscriber Data Configuration (SDC) device with QCell’s ECR system.
* Delivered reliable and consistent customer service and subscribers support, contributing to day-to-day technical operations and demonstrating 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.
* **Achieved “four nines” (99.99%) device uptime** by providing responsive IT support and ensuring training hardware and software remained fully operational, supporting smooth delivery of technical education programs.
* Contributed to the refinement of 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**

**Eminent Family Organization****Jul 2012 - Present**

*Secretary General (Former) - Active member Freetown, Sierra Leone*

* Coordinated and led outreach programmes, delivering educational materials to underserved schools.
* Promoted youth leadership, critical thinking, and civic engagement by organizing community events such as debates, quizzes, and mentorship sessions.
* Served as a key contributor to the organization’s governance framework through participation in the constitutional drafting and review process.
* 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)