

Seyi Daniel Kuforiji

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EDUCATION

Stanford University - San Francisco, California, USA

Data Science – *Machine Learning and AI for Precision Medicine (Certification)*

05/2025 – 07/2025

- Explored advanced statistical methods, which advanced my ability to evaluate complex health data sets and derive meaningful insights.
- Conducted research on machine learning algorithms to implement automated solutions in healthcare settings.

Holberton School - San Francisco, California, USA

Software Engineering (*Certification*)

02/2022 – 03/2023

- Completed a 12-month hands-on project-based full-stack software engineering program
- Gained proficiency in C programming, Python, and Shell scripting, with a focus on algorithmic problem-solving.
- Worked extensively with Git and GitHub for version control and collaboration.

University of Lagos – Lagos, Nigeria

Geography - *GIS*

11/2016 – 01/2021

- Explored various geographical systems and their applications, increasing my understanding of spatial data analysis and its real-world implications in urban planning and environmental management.
- Developed proficiency in GIS software tools, helping to create detailed maps and visualizations that supported decision-making for local government projects.

EXPERIENCE

Koloxo Home – Lagos, Nigeria (Remote)

AI Developer

12/2025 – Present

- Developed data validation schemas of AI input data to cut unwarranted costs by 100%.
- Designed and implemented AI-driven features to optimize digital marketing campaigns, including audience segmentation, content recommendations, and performance forecasting.
- Automated reporting and insights generation to help stakeholders make data-driven marketing decisions

Xenara Inc – Ontario, Canada (Remote)

DevOps Engineer

08/2025 – 12/2025

- Performing cost optimization to cut AWS computer power cost by 30%.
- Set up monitoring using Prometheus to maintain site operationality and reliability by 20%

Software Freedom Conservancy – Brooklyn, New York (Remote)

Software Engineer

12/2024 – 03/2025

- Revamped Git's testing framework by implementing Clar, which reduced manual debugging time by 40% and significantly raised automation across the project.
- Developed C-based test cases that cut execution time by 30%, enhancing overall test efficiency and allowing for quicker iterations.
- Established test reliability through the implementation of structured assertions and better error handling, which successfully reduced false positives by 25% and increased confidence in test results.
- Authored technical articles detailing the test migration steps, guiding 200+ contributors and helping them navigate the complexities of the framework effectively.

Stackwizr Limited – Southampton Hampshire, UK (Remote)

Full Stack Data Engineer

10/2023 – 01/2025

- Developed scalable ETL pipelines, optimizing data transformation and supporting analytics for over 1 million records.
- Automated report generation using SQL and Power BI, enabling the team to focus on strategic tasks by reducing manual effort.
- Designed and implemented scalable data warehousing solutions that improved query performance by 60%, helping users access information faster and more efficiently.
- Resolved database issues swiftly, reducing downtime by 30%, which ensured greater system reliability for all users.
- Applied machine learning and AI techniques to detect fraudulent transactions, enhance credit risk assessment, and automate financial data analysis.

ALX Africa - Nairobi, Kenya (Remote)

Software Engineer Intern

02/2022 – 07/2023

- Configured and refined web servers, reducing application load times by 35% and improving deployment efficiency.
- Automated key procedure using Bash, C, and Python, reducing manual intervention by 50% and improving system efficiency.
- Boosted database performance, improving query execution speed by 40% through schema design, index management, and query optimization.

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NYSC – Ibadan, Nigeria

Computer Science Instructor

03/2021 – 02/2022

- Introduced students to programming fundamentals and basic computer operations.
- Evaluated students' progress through assignments, tests, and projects, providing feedback for improvement.

Projects

Linux GPU Programming

- Wrote custom vertex and fragment shaders for per-vertex colors, textures, and real-time animations.
- Applied texture blending with multiple texture units and proper sampling techniques.
- Designed and managed VAOs, VBOs, and EBOs efficiently.
- Applied 2D and 3D transformations using GLM, including translation, scaling, and rotation.
- Implemented frame-dependent animations with glfwGetTime() for smooth, real-time visual effects.

Open-Source Contributions

Git Project

Most widely used version management software

- Modernizing Git's test infrastructure by migrating all legacy unit tests to cut execution time by 30%, enhancing overall test efficiency.
- Established test reliability through the implementation of structured assertions and better error handling, which successfully reduced false positives by 25% and increased confidence in test results.

MolEvolvR

Analyzes the evolutionary relationship and features of proteins

- Standardized code reliability and maintainability by adding structured error handling to meet modern R practices.
- Collaborated with researchers to develop relevant test cases and assertions to improve trust in the platform by 30%.

SKILLS

Technical Skills

- **Programming & Scripting:** C/C++, Python, R programming, Bash, SQL, YAML, Shell, Linux GPU Stack
- **Version Control & DevOps:** Git/GitHub, Jenkins, Docker, Kubernetes, GitLab CI, Agile Methodologies, GitHub Actions, Jira
- **Systems & Infrastructure:** Linux, Terraform, Ansible, AWS, Azure Data Factory
- **Monitoring and Logging:** Prometheus, Grafana, Datadog

- **Big Data & Analytics:** Spark, Kafka, Power BI, PySpark, Pandas, NumPy, Scikit-learn, Jupyter Notebook, Matplotlib, Machine Learning
- **Web & API Development:** Django, Flask, RESTful APIs, Microservices
- **Testing Technologies:** System Test, Unit Testing, Postman, Pytest,