

Samuel Adewumi

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Software Engineer
Cloud | Data | Frontend

Portfolio
GitHub: [GitHub/Samdejii](#)
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Software Engineer building systems across cloud infrastructure, data pipelines, and web applications using Python, React, SQL, and AWS. Experienced in developing end-to-end solutions from data processing and backend services to user-facing interfaces. Strong fundamental system-level knowledge enables me to independently architect, troubleshoot, and deploy complete systems from scratch. IBM Masters Fellowship recipient recognized for research and engineering contributions in AI-driven cybersecurity and smart infrastructure.

AWARDS

IBM Masters Fellowship Recipient 2024 — 2025

SKILLS

Languages	Python, SQL, Javascript, Typescript, Bash
Frontend	React, Tailwind CSS, API integration, responsive UI, component architecture
Data	Pandas, NumPy, ETL pipelines, data processing, analytics workflows
Cloud	AWS (EC2, S3, IAM, VPC), deployment fundamentals
Systems	Linux, Docker, Git, debugging, automation
ML/AI	scikit-learn, PyTorch, anomaly detection, LLM workflows
Tools	Jupyter, VS Code, Linux CLI

TECHNICAL EXPERIENCE

Teaching Assistant Jan 2026 — Present
West Virginia State University Dunbar, WV

- Teaching C and Java programming to 20+ undergraduate students using the zyBooks interactive platform.
- Guiding students through programming exercises, debugging, and core computer science concepts.
- Supporting lab sessions and reinforcing best practices in coding and problem-solving.
- Assisting students with troubleshooting syntax, logic errors, and development workflows.

Research Assistant Team Lead Jun 2025 — Present
West Virginia State University Dunbar, WV

- Built end-to-end data and machine learning pipelines in Python to process large datasets.
- Automated preprocessing and workflow pipelines to improve reliability and reproducibility.
- Designed evaluation systems to monitor performance and system behavior.
- Troubleshoot pipeline failures and system-level issues.

Junior Software Engineer Nov 2023 — Aug 2024
Metro Innovation Hub Ibadan, NG

- Developed backend automation tools using Python supporting internal applications.
- Built and maintained data processing workflows and system utilities.
- Improved operational efficiency by automating repetitive processes.
- Debugged and maintained software systems in Linux environments.

EDUCATION

MS Computer Science (AI & Cybersecurity), *West Virginia State University* May 2026
GPA: 3.9/4.0

BS Computer Science, *Bowen University* November 2020
GPA: 3.5/5.0

CERTIFICATES

AWS Certified Solutions Architect - Associate (In Progress) - Hands-on experience with EC2, S3, IAM, and VPC through architecture labs

Generative AI Fundamentals

Google Professional Certificate in Cybersecurity

PROJECTS

Digital Twin-Augmented AI for Smart Grid Threat Detection

- Designed and implemented data processing and machine learning pipelines.
- Built automated workflows for system simulation and analysis.
- Developed reproducible pipelines supporting experimentation and evaluation.