Yusuf Adamu

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Professional Summary

Software Engineer focused on building scalable backend systems, cloud-native services, automation tools, and applying machine learning to solve practical problems. Skilled in Java, Python, Spring Boot, and AWS, with hands-on experience developing ML-based security and classification tools. Proven track record of delivering high-performance solutions and collaborating across engineering and business teams.

Technical Skills

- **Languages**: Java, Python, C++, JavaScript, SQL
- **Frameworks/Libraries**: Spring Boot, Django, Node.js
- **Cloud/DevOps**: AWS (EC2, S3, Lambda), Docker, Kubernetes, GitHub Actions
- **Databases**: PostgreSQL, MySQL, OracleDB, MongoDB
- **Machine Learning**: Scikit-learn, OpenCV, Hugging Face Transformers
- **Tools & Practices**: REST APIs, Microservices, CI/CD, Agile, Automated Testing, System Design

Education

Georgia State University, Atlanta, GA
Master of Science in Computer Science — Expected July 2025 | GPA: 3.95/4.0
Oduduwa University, Ile-Ife, Nigeria
Bachelor of Science in Computer Science — April 2021 | GPA: 4.87/5.0 (Valedictorian)

Experience

Graduate Teaching Assistant — *Georgia State University*
August 2023 – Present

- Delivered instruction in C++ and Python to 100+ students, enhancing foundational skills in systems-level programming.
- Led weekly lab sessions and project reviews using Git and Linux environments, increasing student project completion by 20%.
- Built grading automation scripts using Python, reducing grading time by 40% and improving feedback consistency.

Software Automation Engineer Intern — *Glocal*
May 2024 – August 2024

- Built Python automation tools that reduced manual QA and backend tasks by 50%, improving deployment reliability.
- Used Selenium and Postman to develop regression tests and debug scripts, lowering production bugs by 35%.
- Collaborated with UX teams to enhance onboarding flow, contributing to a 25% drop in support tickets.

Software Engineer — *Aristack Solution Limited*
May 2021 – August 2023

- Developed and maintained RESTful APIs using Java and Spring Boot, supporting 1M+ daily financial transactions with 99.9% uptime.
- Integrated payment gateways with Core Banking APIs and optimized backend logic using multithreading and caching, improving transaction speed by 30%.
- Secured services using OAuth 2.0 and implemented 2FA workflows, reducing unauthorized access by 40%.
- Designed CI/CD pipelines using Docker and GitHub Actions to automate deployments, cutting release cycles by 50%.

Key Projects

- **Prompt Injection Detection in LLMs** — Python, Hugging Face, LLMGuard
  Developed a prompt injection detection layer for LLM-based chatbots. Evaluated over 2,000 adversarial prompts to enhance safety and robustness.
- **MT to MX Financial Translator** — Java, Spring Boot, MySQL
  Built a compliant message translator to convert financial transaction formats under high load with minimal data loss.
- **Hospital Medication Management System** — Python, React.js, PostgreSQL
  Created a full-stack application to manage prescriptions, reducing manual entry errors by 30% and improving accuracy.
- **Merchants API** — Java, Spring Boot, Oracle
  Designed and implemented a microservice API for managing merchant data with secure authentication, CRUD operations, and SQL persistence. Demonstrated proficiency in scalable API design and cloud deployment readiness.
- **Traffic Signal Classifier with LLaVA** — Python, OpenCV, Scikit-learn
  Evaluated VLM performance on traffic signal classification, identifying preprocessing improvements and model gaps.

Leadership & Community Engagement
- **Instructor**, Repotecc — Mentored 50+ students; several transitioned into successful tech careers.
- **AI+ Member**, Data Science Nigeria — Participated in workshops and initiatives to grow AI/ML capacity in Africa.