ODUFISAN, OLUWASEUN ISAAC

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SUMMARY

A highly adaptable Software and Research Engineer with strong foundation in AI and Software Engineering, known for rapid learning and problem-solving mindset, eager to drive impactful solutions in the Fintech industry.

EDUCATION

The Federal University of Technology, Akure (FUTA), Akure, Ondo State, Nigeria. **(March 2024).**

Bachelor of Engineering in Computer Engineering (First Class Hons.) CGPA: 4.79/5.00.   (**Top 1%**)

National Institute of Information Technology (NIIT), Ikeja Centre, Lagos State, Nigeria. **(December 2018).**

Diploma in Java Technologies

Yaba College of Technology, (YABATECH), Yaba, Lagos State, Nigeria. **(March 2017).**

National Diploma in Computer Engineering (Upper Credit) CGPA: 3.22/4.0

HONOURS AND AWARDS

- **Vice Chancellor Merit Award:** First Class Graduate of The Federal University of Technology, Akure   (November 2024).
- **HOD Merit Award:** Best Graduating Student of the Department of Computer Engineering   (November 2024).
- **Class of Aurelius SEET Award:** The School of Engineering and Engineering Technology (SEET) Aurelius Set Award of Academic Excellence for Being a Top Student in the Department of Computer Engineering   (March 2024).
- **Chronicles SDC Staff of the Month:** Award for Commitment to Excellence at Work and Positive Impact   (February 2023).

PUBLICATION

Oluwaseun Isaac Odufisan, Osekhonmen Victory Abhulimen, Erastus Olarenwaju Ogunti. "Harnessing artificial intelligence and machine learning for fraud detection and prevention in Nigeria." *Journal of Economic Criminology*, Volume 7, 2025, Article 100127. ISSN 2949-7914. DOI: https://doi.org/10.1016/j.jeconc.2025.100127.

ENGLISH PROFICIENCY

Test Report Form Number: 23NG037884ODUO1500A - International English Language Testing System **(November 2023).**

Overall Band Score: 7.5 & CEFR Level: C1 (Advanced English Language User)

SKILLS

- **Full Stack Development:** JavaScript, React, Next.js, React Native, Node.js, Express.js, Java, Spring, Hibernate, REST, GraphQL, OAuth 2.0, JWT, SSL/TLS, TailwindCSS
- **Machine Learning & Data Science:** Python, TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, OpenCV
- **Database Management:** MySQL, MongoDB, Redis, SQL
- **DevOps & Scalability:** AWS, Docker, Kubernetes, Microservices
- **Version Control & Testing:** Git, GitHub, JUnit, Jest, Supertest, Playwright
- **Documentation & Technical Writing:** SRS, SDD, User Manuals, API Documentation, Project Reports
- **Research & Analytical Skills:** Information analysis, synthesis, problem-solving
- **Soft Skills:** Teamwork, communication, time management, problem-solving

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PROJECTS

Ride-Sharing App **(July 2025).**

- Designed and developed CarbuCarbu from scratch using React Native, Expo, and Clerk to enable easy ride booking and user management.
- Built authentication (Google OAuth, email/password), integrated Google Maps for ride tracking, implemented Stripe payments, and created a responsive UI with Tailwind CSS.
- Delivered a fully functional app with tab-based navigation, real-time driver tracking, and secure transactions, enhancing user experience and scalability.

Banking Application **(June 2025).**

- Developed a scalable digital banking platform to provide secure wallet management, KYC verification, and transaction services in Nigeria.
- Led the creation of a full-stack web application with user authentication, payment integration, and admin controls, ensuring compliance with CBN and NDPC regulations.
- Built the backend with Node.js, Express, and MongoDB, integrating Flutterwave for payments and NIMC/SmileID for KYC; developed the frontend using Next.js, React, and TailwindCSS with real-time notifications via Socket.io.

AI-Powered Task Management System **(May 2025).**

- Developed a full-stack task management and collaboration platform to enhance team productivity and administrative oversight, integrating file storage and real-time communication.
- Led the creation of user and admin interfaces for task creation, goal tracking, file management with Pinata, and performance analytics, ensuring scalability and security.
- Built the backend with Node.js, Express, and MongoDB, and the frontend with React, Vite, and Tailwind CSS; implemented JWT authentication, Pinata file storage, and real-time chat using WebSockets.
- Delivered a platform with smooth task management, decentralized file storage, and comprehensive analytics, validated through Jest tests, improving team efficiency.

Intelligent Payment Routing System **(February 2025).**

- Developed an AI-based payment routing system that selects the best payment processor based on cost, latency, and success rate.

Virtual Account & Temporary Payment Solution **(December 2024).**

- Created a system that generates temporary accounts that expire in minutes.
- Enabled auto-crediting and confirmation email notifications.
- Used WebSocket for real-time updates system (AVS).

Predictive Analytics for Payment Failures & Chargebacks **(December 2024).**

- Created an ML model to predict failed transactions and chargebacks based on historical payment data.
- Used RNNs (LSTMs) and transformer models for sequence modelling of user transactions.
- Provided insights via real-time analytics dashboard.

Fraud Detection System for Online Payments **(October 2024).**

- Built an ML-powered fraud detection system using Random Forest, XGBoost, Isolation Forest, and Autoencoders.
- Implemented real-time transaction monitoring with feature engineering on transaction patterns, CVV verification, and geographically-based fraud detection.
- Use explainable AI (SHAP & LIME) for model transparency.

THESIS PROJECT

Facial Age Estimation Mobile Application **(July 2025).**

- Developed a facial age estimation mobile application for Black individuals using a deep ensemble learning model with ResNet50 and Keras, integrating React Native, Django, and SQLite, supported by extensive data collection across Nigeria and Africa, and presented as an undergraduate thesis at a research seminar.

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

- Foundations of Cybersecurity (Google) | CERTIFICATE   (December 2023).
- ML Engineering for Production Specialization (DeepLearning.AI) | CERTIFICATE   (September 2022).
- Introduction to Machine Learning in Production (DeepLearning.AI) | CERTIFICATE   (September 2022).
- Machine Learning Data lifecycle in Production (DeepLearning.AI) | CERTIFICATE   (September 2022).
- Machine Learning Modelling Pipelines in Production (DeepLearning.AI) | CERTIFICATE   (September 2022).
- Deploying Machine Learning Models in Production (DeepLearning.AI) | CERTIFICATE   (September 2022).
- Deep Learning Specialization (DeepLearning.AI) | CERTIFICATE   (September 2022).
- Neural Networks and Deep Learning (DeepLearning.AI) | CERTIFICATE   (September 2022).
- Improving DNN: Hyperparameter Tuning, Regularization and Optimization (DL.AI)| CERTIFICATE   (September 2022).
- Structuring Machine Learning Projects (DeepLearning.AI) | CERTIFICATE   (September 2022).
- Convolutional Neural Network (DeepLearning.AI) | CERTIFICATE   (September 2022).
- Sequence Models (DeepLearning.AI) | CERTIFICATE   (September 2022).
- Machine Learning Specialization (DeepLearning.AI) | CERTIFICATE   (July 2022).
- Supervised Machine Learning: Regression and Classification (Stanford) | CERTIFICATE   (July 2022).
- Unsupervised Learning, Recommenders, Reinforcement Learning (Stanford) | CERTIFICATE   (July 2022).
- Advanced Learning Algorithms (Stanford) | CERTIFICATE   (July 2022).

WORK EXPERIENCE

Software Engineering Instructor – Aptech Nigeria   **(October 2024 – April 2025).**

- Teaching software engineering principles from basic to advanced, covering Java, Spring Boot, RESTful APIs and microservices architecture.
- Guiding students in real-world software development, including secure coding practice and API security.

AI Systems Engineer - Alpha Instincts Technologies   **(August 2023 – December 2023).**

- Defined system requirements for a smart bra device for breast cancer detection and prevention.
- Developed the system architecture framework and designed the communication flow between the hardware and mobile app.

Machine Learning Engineer - Chronicles Software Development Company   **(January 2023 – June 2023)**

- Developed student grade prediction model to forecast performance in Lagos state's West African Senior School Certificate Examination.
- Built a chatbot tutor using Natural Language Processing to assist students.
- Led internal training sessions for teammates on data mining, information visualization, data security, and pattern recognition.

RESEARCH EXPERIENCE

Research Assistant – Machine Learning Research Lab, FUTA.   **(July 2024 - September 2024)**

- Investigated the impact of fraud on Nigeria's digital economy across finance, e-commerce, healthcare, and education sectors.
- Examined various AI methodologies, including supervised, unsupervised, and deep learning, and their use in anomaly detection, behavioral analysis, risk scoring, and network analysis.
- Proposed the future direction for AI and ML in enhancing financial crime prevention in the Nigerian digital economy.

LEADERSHIP EXPERIENCE

CDS President for ICT, National Youth Service Corps, Ojodu LG   **(October 2024 – February 2025).**

- Led the Information and Communication Technology group, organizing and managing projects, workshops, and training sessions to enhance digital literacy and develop technology-driven solutions for local community challenges.

INTERESTS: Travelling, Observation and Research, Music, Sport, Reading, Leadership and Entrepreneurship Workshops.

REFERENCES: Available on Request.