

# RIDWAN OLUWADAMILARE AKINFENWA

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## PROFESSIONAL SUMMARY

A Highly skilled **Software Engineer, AI Engineer/Architect and Blockchain Engineer/Security Researcher** with extensive expertise and hands-on experience of 7 years in all levels of Software/website development, blockchain development, smart contract auditing, AI-agent development, and software engineering. Known for designing and coding efficient, high quality applications and contributing to innovative tech solutions. Proven leadership in start-up environments and collaborative projects.

**Software/Tech skills:** Microsoft Office Suite, Google Suite, C++, SQL, Python, GIS (Arc & QGIS), Solidity (Hardhat, Foundry), Javascript (React.js), Typescript, PHP/Laravel, Flutter, Node.js, Web3.js, Data Analysis (R, SPSS, Orange), Jira & Trello, HTML/CSS, REST API, Firebase, AWS, Wordpress (CMS), GIT, Django, Azure, Flask.

## EDUCATION

**Nexford International University, Washington DC, United States**  
MBA in Artificial Intelligence

**Federal University of Technology Akure (FUTA), Ondo State, Nigeria**  
B.Tech in Forestry and Wood Technology (Second Class Honours (Upper))

## PUBLICATIONS, RESEARCH, AND PRESENTATIONS

- MBA Personal Research Project, “*Integrating Artificial Intelligence in Sustainable Business Management: Strategic Implications for Business Operations and Sustainability Goals*”, **Ongoing Research**.
- El-Kurebe, A. (2023): Futa Don, Students Develop Mobile App. for Tree Volume Estimation - Prof. S.O. Akindele, **R. O. Akinfenwa**, and A. N. Akintoye. [Link to publication](#)
- UIRESDEV Hackathon Presentation, “*Technology and Tools Enabling Impactful Solutions*” by **R. O. Akinfenwa**. GenZ UIRESDEV, October 7<sup>th</sup>, 2023.
- S.O. Akindele, G.O. Jegede, **R.O. Akinfenwa** & A.N. Akintoye. Development Of a Mobile Application For Tree Volume Estimation. 427-438: 43RD Annual Conference of Forestry Association of Nigeria (Akure, Ondo State, Nigeria) - Securing the Nigeria’s Forest States for Sustainable Development. (14th - 18th March, 2022).

## PROJECTS & WORK EXPERIENCE

- **AI Engineer: Therapi AI - Germany** **Mar. 2025 - Jun. 2025**  
**An AI-driven agent for mental health solutions and therapy recommendations**
  - Developed and optimized AI-driven mental health solutions, enhancing chatbot accuracy by 40% through NLP and deep learning models.
  - Engineered secure and scalable AI architectures, ensuring compliance with HIPAA and GDPR for patient data protection.
  - Integrated LLMs (Large Language Models) and sentiment analysis algorithms, improving user engagement and response relevance.
  - Collaborated with clinical psychologists and psychiatrists to refine AI-driven therapy recommendations, increasing user retention by 30%.
  - Implemented real-time AI monitoring and model retraining pipelines, reducing bias and improving conversational empathy.
  - Leveraged Python, TensorFlow, PyTorch, and OpenAI, Qween, Grok APIs to build and deploy scalable AI solutions for mental health and therapy applications.
- **Senior Software Engineer: Tech Dynasty Services/ProsperaHealth - Towson, Maryland, USA** **Oct. 2023 - Jan. 2025**  
**A comprehensive healthcare solution with Electronic Medical Record Systems (EMR)**
  - Designed & built the company’s official websites, optimizing UI/UX and boosting site engagement by 40%.
  - Engineered a comprehensive EMR (Electronic Medical Record) solution to support healthcare documentation, aligning with industry standards for security & accessibility leading the company’s value to \$500K in one year.
  - Enhanced existing codebases & implemented efficiency improvements, reducing website load time by 35% & improving system reliability
  - Worked closely with cross-functional teams, ensuring software solutions met business and regulatory requirements, leading to a 20% increase in operational efficiency.
  - Designed and deployed high-performance backend systems, improving system scalability and handling for LMS (Learning Management System) without downtime.
- **Project Manager / Lead Smart Contract Auditor (Security Researcher)** **July. 2018 - Nov. 2023**  
**Smarthub Innovations, Ibadan, Oyo State, Nigeria**
  - Led security audits for 50+ smart contracts, identifying and mitigating vulnerabilities that could have resulted in potential losses exceeding \$1M.

- Developed and implemented an automated smart contract auditing framework, reducing manual review time by 40% and increasing efficiency.
  - Aligned smart contract security assessments with industry standards (e.g., OWASP, SWC Registry), improving protocol reliability and compliance.
  - Managed a team of 10+ security researchers, blockchain engineers, and developers, ensuring timely delivery of security audits and risk assessments.
  - Identified emerging threats in DeFi, NFTs, and Layer 2 solutions, publishing technical reports that improved security awareness in the Web3 community.
- **CoFounder/Software Engineer: Strap Finance - Lagos, Nigeria** **Sept. 2022 - Dec. 2023**  
**A fintech company rendering a cross-border payment services via mobile application**
    - Led negotiations and established partnerships with 10+ financial institutions and fintech startups, enhancing product offerings and expanding market reach by 35%.
    - Designed & launched a secure digital payment infrastructure that processed over 10m naira in transactions within the first year.
    - Spearheaded business development initiatives that increased company revenue by 50% within the first 12 months of operations.
    - Developed a targeted marketing strategy that increased customer acquisition by 60% and boosted active users.
  - **Lead Website Engineer: Doktorzz - Lagos, Nigeria** **Jan. 2022 - Dec. 2023**
    - Designed and built visually engaging WordPress websites, increasing user engagement by 45% through optimized UI/UX.
    - Worked closely with project stakeholders, gathering requirements and delivering tailored web solutions, leading to a 30% improvement in client satisfaction.
    - Implemented advanced security measures, reducing cybersecurity vulnerabilities and ensuring 99.9% uptime.
    - Optimized website structure and SEO, leading to a 35% increase in organic traffic and improved customer conversion rates.
  - **Senior Blockchain Engineer (DeFi): dFund - United Kingdom (UK)** **July. 2021 - Sept. 2023**  
**A DeFi product for lending and borrowing with a credit score algorithm structure**
    - Developed & deployed Ethereum-based smart contracts, enhancing platform transparency & security with zero security incidents.
    - Led the design and implementation of a blockchain-based lending and borrowing system, integrating a credit score model, securing \$1M+ in Total Value Locked (TVL).
    - Utilized Truffle, Hardhat, and OpenZeppelin to enhance code security, maintainability, and gas efficiency, reducing transaction costs by 30%.
    - Integrated smart contract security best practices, ensuring full adherence to DeFi security standards and eliminating vulnerabilities in financial transactions.
    - Developed and optimized DeFi DApps using Solidity, Web3.js, and modern blockchain frameworks, ensuring seamless user interactions.
  - **Development Team Lead: Traddex Store - Akure, Nigeria** **May. 2019 - Sept. 2022**  
**An E-commerce web store service provider**
    - Led the development team to design, code, and deploy software modules effectively.
    - Supervised coding practices, optimized code efficiency, and maintained software functionality.
    - Worked with cross-functional teams to troubleshoot, debug, and resolve software issues.
    - Contributed to building feature-rich applications using PHP, Laravel and MySQL.
  - **Student Intern: Centre for Space Research and Applications (CESRA), Akure, Nigeria** **July. 2021 - Sept. 2021**
    - Calculated Vegetation & Water Index (NDVI & NDWI) to assess the vegetation trends of forest reserves in Nigeria.
    - Acquired basic knowledge in QGIS, Google Earth Pro & ARCGIS tool & its application in forest management assessment.

## AWARDS / HONOURS

• 2 <sup>nd</sup> Runner Up, Wema Bank Hackaholics Startup Competition	<b>2023</b>
• Academic Excellence Award, IFSA, FUTA Chapter	<b>2019</b>
• Award of Excellence & Recognition, NRA, Abuja, Nigeria	<b>2017</b>

## PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

Decentralized Finance (Defi) Development and Management - Finrik	<b>2024</b>
Measurement, Reporting and Verification for Environmental Integrity: Application - FAO	<b>2024</b>
National Youth Service Corps - NYSC	<b>2024</b>
Advanced Business Foundations - Nexford University	<b>2024</b>

• Strategic business planning, financial analysis, innovative problem-solving.	
<b>AI in Business Essential Training, Linkedin Learning</b>	<b>2024</b>
<b>Programming for Everybody (Python), University of Michigan, Coursera</b>	<b>2023</b>
• Introduction to Python, data type, variables, Python tools such as functions and loops	
<b>Data Science Foundations, Linkedin Learning</b>	<b>2023</b>
• Data mining using R, Python, Orange, and RapidMiner, Data clustering & reduction, Regression analysis.	
<b>Ethereum Blockchain Developer, Udemy</b>	<b>2022</b>
<b>Professional Project Management Basics</b>	<b>2022</b>
<b>Solidity and NFT Development, Udemy</b>	<b>2022</b>
<b>Solidity Programming Language, Udemy</b>	<b>2022</b>
<b>Blockchain Certification Training, SkillUp</b>	<b>2021</b>
<b>Google Digital Skills for Africa</b>	<b>2020</b>
<b>Grade 1 Nigeria Football Referee - NRA/NFF</b>	<b>2017</b>
<b>VOLUNTEERING AND COMMUNITY SERVICE</b>	

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• Volunteer and Outreach Leader of Charity CDS, Ibadan, Nigeria	<b>2024</b>
• Volunteer, Tech Dynasty Youth Support Initiative, Pamirian Foundation, Imo, Nigeria	<b>2024</b>
• Member and Media team volunteer for OneAfricanChild Foundation	<b>2023</b>
• Participated in the NYSC Impact 50 lives community outreach, Ibadan, Nigeria	<b>2023</b>
• Web Development and Media team, The Beat School Tour, CMTGGI, Lagos, Nigeria	<b>2021</b>

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