

ALABI ESTHER OLUWATIMILEHIN

Software Developer (Full-Stack, React / Next.js / TypeScript / Python) · BSc Biochemistry, First Class Honours · Computational Biology & ML

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PROFILE

Software developer who ships production websites, client platforms, and automations, with a First Class Biochemistry degree (CGPA 4.64/5.00, Dean's List all eight semesters). Built and deployed a MetaTrader 5 licensing platform with payments and user accounts, four live client websites, a WordPress newsletter integration with a custom Resend plugin, and a Telegram reporting bot backed by Google Sheets. On the research side, built GeneLens, an RNA-seq pipeline with GO/KEGG enrichment, machine learning, and AI interpretation, and used it to publish an independent transcriptomics study. Comfortable owning a product from first design to deployment, and at bringing a scientist's rigour to data-driven engineering.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, HTML, CSS

Frontend: React, Next.js, Vite, Tailwind CSS, responsive design, accessibility

Backend & data: Node.js, REST APIs, Supabase, PostgreSQL, authentication and licensing flows, payment integration

CMS & automation: WordPress (custom plugins), Resend, Telegram Bot API, Google Sheets API, n8n

Machine learning: scikit-learn (Random Forest, Logistic Regression), cross-validation, ROC-AUC, feature importance, pandas, NumPy, SciPy

Bioinformatics: RNA-seq differential expression, NCBI GEO, GO and KEGG enrichment (Enrichr), Welch's t-test, BH-FDR, PCA, Plotly, Streamlit, gseapy

AI & APIs: Anthropic Claude API, OpenAI API, prompt engineering

Tools: Git/GitHub, Vercel, Cloudflare, Streamlit Cloud, VS Code

EXPERIENCE

Freelance Software Developer

Sep 2025 – Present

Client websites and platforms, remote

- **Algo Trading with Ighodalo** (algotradingwithighodalo.xyz): sole developer of a Next.js/TypeScript platform for selling and licensing MetaTrader 5 Expert Advisors, with payment processing, user accounts, and license validation. Live and in use by paying traders.
- **MyPropGuard** (mypropguard.io): waitlist landing page for an automated risk-management product for CFD prop traders, built for conversion with a founding-cohort sign-up flow.
- **Gofame 360, MarvelTech Hub, Haven Word Church:** designed, built, and deployed responsive marketing and community websites in React, TypeScript, and Tailwind CSS, handling hosting, updates, and maintenance.
- **Emmanuel Onoja newsletter:** wrote a custom WordPress plugin on the Resend API that confirms subscriptions by email and sends an automated welcome newsletter.
- **Telegram Cell Report Bot:** Python bot that validates structured meeting reports from a 30-member group and saves them to Google Sheets automatically, removing manual data entry.

Software Developer Intern

2025 – Present

Paycrest, decentralised stablecoin-to-fiat settlement protocol (pre-seed fintech)

- Contribute to frontend and full-stack development on a production-grade settlement protocol serving users across Africa.

ICT Department Staff (NYSC), Mercy Medical University

Jun 2025 – May 2026

National Youth Service Corps primary assignment

- Configured, monitored, and maintained computer-based test (CBT) examination systems, ensuring stability, accuracy, and minimal downtime.
- Provided real-time technical support during examinations across hardware, software, and network issues, and handled general IT support for the institution.

Laboratory Intern, Genetics Laboratory

2022 – 2023

University College Hospital (UCH), Ibadan, and SolidCare Diagnostics

- Assisted with PCR, DNA extraction, and diagnostic testing in a clinical research setting, supporting accurate and reliable results.

SELECTED PROJECTS

GeneLens, RNA-seq analysis web app

2025 – Present

[genelens.streamlit.app](#) · [github.com/dev-essie/GeneLens](#)

- End-to-end pipeline: differential expression (Welch's t-test, Benjamini-Hochberg FDR), GO and KEGG enrichment via Enrichr, Random Forest classification (200 trees, 5-fold CV), and Claude-generated biological interpretation, with volcano plots, heatmaps, and PCA.
- Validated on COVID-19 PBMC data (GSE152418: 60,683 genes × 34 samples) and a Type 2 Diabetes liver dataset; automatic gene-ID mapping from Ensembl, Entrez, RefSeq, and UniProt.

Transcriptomic Analysis of Type 2 Diabetes Liver (independent study)

2026

[github.com/dev-essie/genelens-t2dm-study](#)

- Found glutathione metabolism (GO:0006749, KEGG hsa00480) as the most depleted pathway and insulin signalling as top enriched, computationally confirming the antioxidant findings of my wet-lab thesis. Published with methods, results, and references.

Customer Churn Predictor · Research Paper Assistant

2025 – 2026

- Random Forest and Logistic Regression churn classifiers with cross-validation and ROC-AUC evaluation, deployed on Streamlit.
- AI tool that parses academic PDFs, summarises them, and extracts key insights using the OpenAI API.

EDUCATION

BSc Biochemistry, First Class Honours (CGPA 4.64 / 5.00)

2021 – Oct 2024

University of Medical Sciences (UNIMED), Ondo State, Nigeria

- Dean's List every semester (8 consecutive). Top scores: Toxicology 91%, Advanced Molecular Biology 90%, Organic Chemistry II 89%, Final Year Project 85%.
- Thesis: Antioxidant effect of phytol in diabetic liver injury. Designed a 30-rat, 5-group in vivo study and quantified GSH, CAT, SOD, GPx, GST, and MDA; showed dose-dependent hepatoprotection ($P < 0.001$).

CERTIFICATIONS

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| • Front End Development Libraries, freeCodeCamp (300 hrs), Apr 2025 | • Responsive Web Design, freeCodeCamp (300 hrs), Feb 2025 |
| • JavaScript Algorithms and Data Structures, freeCodeCamp (300 hrs), Mar 2025 | • Complete WordPress Website Developer Course, Udemy, Sep 2024 |

LEADERSHIP & AWARDS

- Assistant Platoon Leader, NYSC Orientation Camp (Jun 2025): coordinated welfare and logistics for about 200 corps members; 3rd place, camp debate competition.
- Usher Team Leader, church leadership (2024 – 2025): scheduled, trained, and coordinated a volunteer team. WAEC and NECO examination checker: result processing and verification.

Portfolio and references available on request.