

Wilson Zimthamaha Bonkuru, B. Pharm.

Pharmacist | Frontend & Full-Stack Engineer | UX Engineer | Tech Educator

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Professional Profile

I am a licensed pharmacist with formal training in **Pharmaceutical Technology and Industrial Pharmacy**, and a practicing **frontend-focused full-stack software engineer** with strong UX sensibilities. My career sits at the intersection of **healthcare, manufacturing, data, and software engineering**, enabling me to design and build digital systems that are not only functional, but compliant, usable, and scalable.

I have hands-on experience in **industrial pharmacy practice, regulatory-aligned workflows, and manufacturing systems**, alongside strong expertise in **modern web technologies, data analysis, and technical education**. I am deeply committed to advancing **technology adoption within the pharmacy profession**, from early learning through real-world practice.

Core Competencies

Software Engineering & UX

- Frontend Engineering (AngularJS, React)
- UX Engineering & Interface Design
- Component-driven UI architecture
- Responsive & accessible design systems
- Performance optimization & clean architecture

Full-Stack & Backend

- JavaScript (ES6+), TypeScript
- Node.js, Express.js
- MongoDB, SQL databases
- REST APIs & system integration
- Authentication & authorization (OAuth, JWT)

Data & Analytics

- Excel (advanced), SQL
- Python for data analysis
- SPSS statistical analysis

- Data cleaning, visualization, interpretation

Pharmaceutical & Industrial Expertise

- Pharmaceutical Technology
- Industrial Pharmacy Practice
- Drug formulation & quality control
- Manufacturing documentation & workflows
- Regulatory awareness (NAFDAC exposure)

Teaching, Leadership & Communication

- Technical instruction & curriculum development
- Mentorship & cohort-based teaching
- Technical documentation (APA, LaTeX)
- Cross-functional collaboration
- Product and systems thinking

Professional Experience

Frontend / UX Engineer & Co-Founder

Symmex — Nigeria | 2024 – Present

- Co-founder and frontend/UX engineer on **Huraflow**, a Manufacturing Execution System (MES) for **pharmaceutical and FMCG manufacturing**.
- Design and implement responsive, user-centered interfaces that simplify complex manufacturing workflows.
- Collaborate with software and hardware engineers to bridge **factory operations, compliance, and digital systems**.
- Apply industrial pharmacy knowledge to align system design with real-world manufacturing practices.

Founder & CEO

ProgrammoCeuticals — Nigeria | Ongoing

- Founded a technology education startup focused on **teaching programming and data skills to pharmacists, pharmacy students, and non-traditional tech learners**.
- Design structured, beginner-friendly curricula across programming, data analysis, and applied technology.
- Promote technology as a core competency in modern pharmacy practice.

Intern Pharmacist

National Agency for Food and Drug Administration and Control (NAFDAC) | 2025 – Present

- Exposure to **regulatory processes, dossier review, screening, and compliance frameworks**.
- Working on a **dossier compilation and review system** aligned with NAFDAC guidelines.
- Applying regulatory insight to software and documentation workflows.

Tutor / Technology Instructor

Industrial Pharmacy Incubator Program (IPIP)
GMP Research Group, University of Nigeria Nsukka | **2025**

- Taught “**Use of Technology for Startups**” during an 8-week industrial pharmacy incubation program.
- Demonstrated how digital tools support pharmaceutical innovation, manufacturing, and scalability.

Tech Educator & Data Analysis Instructor

Independent / Freelance | 2023 – Present

- Teaching programming, data analysis, and applied technology to **pharmacy students, pharmacists, and other learners**.
- Topics include Excel, SQL, Python, frontend development, and practical problem-solving.

Technical Lead

Pharmapool Synergy Solutions Nigeria Ltd | 2024 – Present

- Technical lead for Pharmapool’s core MERN-based platform.
- Led architecture decisions and implementation to improve **pharmaceutical supply chain transparency and engagement**.

Lead Developer

Etiquette Pharmaceuticals Ltd | 2023 – Present

- Lead developer responsible for designing and deploying a responsive corporate website.
 - Supported pharmaceutical service delivery through modern web solutions and system optimization.
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Healthcare Research Associate

G-Techno Nigeria Ltd | 2023

- Participated in research on **natural product formulation (Deulcerlin tablets)**.
- Applied pharmaceutical and analytical skills in R&D environments.

Selected Projects

- **Huraflow MES** – Manufacturing Execution System for pharma & FMCG industries.
- **ProgrammoCeuticals Learning Platform** – Tech education for pharmacy professionals.
- **NAFDAC-Aligned Dossier Review System** – Regulatory documentation workflow tool.
- **Hospital Management System** – Ongoing system design and development.
- **Faculty Exam Management System** – Digital platform for academic assessment workflows.
- **Microsoft Graph Email Automation** – Secure Outlook email automation using OAuth.

Education

University of Nigeria, Nsukka

Bachelor of Pharmacy (B.Pharm) — 2024

Certifications & Recognition

- Foundations of Generative AI — Udemy (2025)
- TechCrush Scholar (2024)

Community & Professional Engagement

- Asthma Awareness and Care Group (AACG)
- Public advocacy for technology adoption in pharmacy

Professional Philosophy

I believe the future of pharmacy lies in **technological fluency, data-driven decision-making, and human-centered systems**. My work is guided by precision, curiosity, and a commitment to building solutions that matter—especially in regulated, high-impact environments like healthcare and manufacturing.