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1. Professional Overview

Adaptive and resourceful developer with a strong foundation in **mathematics** and practical experience in **frontend and backend systems**.
I explore the intersection of **mathematics, software engineering, and creative design**, translating abstract models into functional, human-centered digital systems.
Passionate about building solutions that merge analytical precision with intuitive user experience.

2. Career Objective

In the next 2 years, my goal is to explore the intersection of mathematics, coding, and creativity to find the most authentic path forward.

- **Year 1:** Deepen foundations in algorithms, data structures, and mathematical computing while experimenting with fusion projects that combine maths, code, and creativity.
- **Year 2:** Commit to a clear path—whether applied mathematics, computational software, or fusion design—and develop a tangible system that demonstrates both theoretical depth and real-world impact.

3. Core Competencies

Software Engineering

Next.js, React.js, Node.js, Supabase, Firebase, REST APIs, GraphQL, Drizzle, Git & GitHub, Vercel, Render, Flask, FastAPI, Python, TypeScript, Linux, Django, Laravel, HTML, CSS, JavaScript, Data structures and algorithms, Systems design, Software development lifecycle, Database design and management, Machine Learning

Workflow & Collaboration

Version control (Git), rapid prototyping, iterative design, agile teamwork, continuous learning, system documentation

Mathematical / Analytical

Mathematical modeling, problem decomposition, logical structuring, data interpretation, optimization principles, computational reasoning

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4. Key Strengths & Soft Skills

Resilient and reliable under pressure • Collaborative team player • Clear communicator • Adaptive self-learner • Creative problem-solver with analytical rigor

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5. Projects & Initiatives

HEXA — *Co-Founder & Backend Developer*

An early-stage startup co-built with a close friend, focused on crafting smart, practical tools for real environments.
At HEXA, I led backend development across several internal builds:

- **FAQ Bot:** Knowledge automation system for customer and institutional use.
- **MTU-Chapel Admin:** Administrative dashboard for chapel activity tracking and attendance.
- **MTU-RapidCare:** Emergency alert and response system for clinics, integrating real-time notifications via Expo, React Native, and Supabase.
- **Result Management System:** Lightweight backend engine for academic grading and result storage.

Featured Projects

LAMP Academy Website — *Full Stack Developer*
Built and deployed the main platform for LAMP Academy, handling both frontend and backend workflows.
Integrated CMS components, streamlined content updates, and optimized loading performance to improve outreach and discoverability.

Artmosphere — Backend Developer

Contributed to the development of a digital platform connecting artists, designers, and audiences through shared creative experiences.

Designed and implemented backend systems for user accounts, content uploads, and interactive community features.

Built secure REST APIs with Supabase and Cloudinary integration for smooth data and media handling.

Delivered a stable backend architecture supporting seamless collaboration between frontend and design teams.

MatrixLAB — *Founder & Developer*

Founded MatrixLAB as a mini-lab for experimentation and applied learning in mathematics and backend systems.

Designed internal micro-tools and helped peers understand how mathematical models translate into working software.

Notely — *Founder & Lead Engineer*

Built **Notely (Tidy)**, an AI-powered task manager that turns unstructured thoughts into organized, actionable plans.

Implemented smart categorization, priority suggestions, subtasks, and export options for seamless productivity.

DataFest Africa Website Update — *Contributor (Frontend)*

Collaborated with the design and dev team to refresh the DataFest Africa site, refining UI sections, updating content structure, and improving event visibility through frontend optimizations.

Machine Learning & Data Analysis Projects

Worked on multiple analytical and ML projects blending mathematical reasoning and practical modeling:

- **Text Authenticity Classifier** – Differentiated human vs. AI-generated text (guided by the CTO at *Digital Oxygen*).
- **Sleep Stage Classifier** – Supervised model for predicting sleep quality based on behavioral inputs.
- **Student Social Media Addiction Clustering** – Unsupervised analysis identifying at-risk student groups from behavioral datasets.

All projects applied core data-science steps: cleaning, preprocessing, feature scaling, model training, and performance evaluation — with strong focus on interpretability and impact.

Other Learning Projects

- **Mini Blog (Django):** Early-stage exploration into Python-based web apps.
- **Mini Blog (Laravel):** Companion PHP project to understand framework contrasts and backend architecture.

6. Experience & Internships

Digital Oxygen — *Machine Learning Intern*

Remote | 2024
Worked directly under the CTO on an applied ML research task focused on differentiating human-written text from AI-generated content.

- Gained hands-on experience in model training, text preprocessing, and classification pipelines.
- Strengthened understanding of model evaluation, dataset balance, and ethical AI considerations.
- Exposure to real-world ML workflow in a collaborative, data-driven environment.

IT Hunters — *Backend Development Intern*

Hybrid | 2023
Supported the team in building and maintaining inventory and stock management systems.

- Assisted in automating reporting and database operations for smoother business management.
- Gained practical experience integrating backend services and performing QA checks.
- Received an official **recommendation letter** for strong reliability and contribution during internship.

7. Education

B.Sc. Mathematics — *Mountain Top University, Nigeria*
Expected Graduation: 2025

8. Leadership & Involvement

President — NAMSN, MTU Chapter

National Association of Mathematical Science Students of Nigeria | 2024 – 2025
Led departmental initiatives focused on academic excellence, student empowerment, and tech awareness.

- Organized seminars and peer-learning sessions integrating mathematics, coding, and applied problem-solving.
- Fostered collaboration between faculty, students, and tech-driven student projects.

Founding Member — The Engineer Network

2024 – Present
Collaborated with early members to build a multidisciplinary community of young African engineers passionate about innovation, collaboration, and problem-solving.

Member — ATC Africa (MTU Chapter)

2024 – Present
Contributed to technology-driven conversations and knowledge exchange through the ATC Africa student chapter, focused on emerging technologies and African innovation.

Founding Member — TEDxMTU

2024 – Present
Part of the founding team that brought the TEDx experience to Mountain Top University. Assisted in planning, speaker selection, and content strategy for campus-wide inspiration and knowledge-sharing events.

IT & PR Representative — LAMP (Level Up and Maximize Your Potential)

Educational Startup | 2023 – Present
Served as bridge between technical and public communication efforts for an educational initiative empowering young learners with soft and digital skills.

- Managed IT support, event communication, and digital storytelling campaigns.
- Supported strategic messaging to drive youth engagement and brand credibility.

9. Additional Information

References: Available on request