

# MUHAMMAD ALAMIN

Junior AI/ML Engineer

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## PROFILE

400-level Computer Science student at Gombe State University, Nigeria, working toward a first-class degree, currently serving as a Junior AI/ML Engineer on the PropaBridge team — a Nigerian real estate AI platform focused on the Abuja and Kaduna markets. Owns the Gemini-powered chatbot, prompt engineering, and retrieval-augmented generation (RAG) pipeline. Comfortable moving between applied AI engineering, backend integration work, and academic coursework in systems and databases.

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## EXPERIENCE

### Junior AI/ML Engineer — PropaBridge *(Current)*

Nigerian real estate AI platform serving the Abuja and Kaduna markets. Own the Gemini chatbot, prompt engineering, and RAG pipeline workflow.

- Migrated the RAG knowledge base from Firestore to Cloud SQL, rewriting query\_helper.py and updating agent\_orchestrator.py for the new retrieval path.
- Designed and shipped a SCHEDULE\_VIEWING intent and built scheduler.py to handle appointment booking through the chatbot.
- Expanded the LEAD\_QUAL intent's lead-qualification logic to capture more buyer/renter signal during conversations.
- Replaced Slack webhook notifications with Africa's Talking SMS integration; evaluated Twilio Content API templates and scoped a future WhatsApp channel pending Meta approval.
- Diagnosed and resolved a persistent .env configuration issue affecting local environment loading.
- Managed feature work through Git/GitHub on a dedicated feature branch (feature/ai-pipeline-d9).

### Independent / Freelance Technical Work — Self-directed projects *(Ongoing)*

- Performed authorized web application security testing, covering SQL injection and XSS testing methodology.
- Extracted and restructured menu content for Hexa Café by UYK into clean markdown and plain-text formats.
- Produced graphic design work, including invoice templates formatted for Nigerian Naira.
- Supported classmates by formatting SIWES (industrial training) reports.

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## EDUCATION

### B.Sc. Computer Science (In Progress — 400 Level) — Gombe State University, Nigeria *(Expected graduation pending)*

Working toward a first-class degree.

- Relevant coursework: Computer Architecture, .NET Programming (C#), Distributed Databases, Database Normalization (1NF/2NF), Systems Analysis & Design (Use Case, ER, DFD diagrams), Software Engineering, Ubiquitous Computing/HCI.

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## SKILLS

**AI/ML:** LLMs, prompt engineering, RAG pipelines, Gemini API, agent orchestration

**Languages:** Python, C#, JavaScript/Node.js

**Cloud & Data:** Google Cloud SQL, Firestore, SQL Server

**Integrations:** Twilio Content API, Africa's Talking SMS API, Git/GitHub

**Other:** Web application security testing (SQLi, XSS), Node.js/npm tooling

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## INTERESTS

Startups and business fundamentals, AI/ML systems, and hands-on software development.