

# SHUAIB ALAMEEN

AI Researcher & Systems Engineer focused on real-world intelligence infrastructure (AI, RAG, Geospatial Systems)

Research Interests: Neuro-symbolic AI, Intelligence Systems, Geospatial Modeling, Knowledge Preservation

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## RESEARCH & PUBLICATIONS

- Toward a Memory That Does Not Burn AI-driven federated framework for knowledge recovery and preservation

Published on Zenodo (DOI indexed): <https://doi.org/10.5281/zenodo.18926211>

- Urban Snake Displacement Risk Index (USDRI) Quantitative framework for measuring displacement pressure in urbanizing regions

Published on Zenodo (DOI indexed): <https://doi.org/10.5281/zenodo.19245787>

- Programming AI-Guided Language (PAGE) Conceptual neuro-symbolic AI architecture (in development)

## Research Grants

Adaption Labs Research Grant —

Granted by Adaption Labs, an AI research company founded by Sara Hooker (ex-Google DeepMind, Cohere). San Francisco, 2026

## TECHNICAL PROJECTS

- HardPaper – AI research IDE that converts codebases into publication-ready LaTeX papers (Electron, LaTeX, AI, Node.js)

- Access Studio – Offline AI video creation suite with template automation and no-cloud dependency (Electron, React, Remotion, FFmpeg)

- Demis – VS Code extension for standardized development environments across teams (TypeScript, VS Code API, Node.js)

- Boseman – AI geospatial system for satellite-based wildlife displacement detection (Python, Flask, Leaflet, GIS)

## ACTIVE R&D

- Kuti (NYSC AI Sidekick) – Offline RAG + neuro-symbolic system for automating NYSC mobilization in low-connectivity environments (validated via user surveys; early interest established)
- LifeFlow AI (Emergency Blood Response) – AI matching system and hospital gatekeeper protocol to improve blood access and prevent fraudulent requests in Nigeria (validated via user surveys)

## WORK EXPERIENCE

### AI & Big Data Instructor | DOXA Team | 2025 – 2026

- Trained students and professionals in AI, ML, and Big Data tools
- Mentored final-year students on research writing and AI/ML projects

### Product Designer | General Kush | Lagos | 2022 – 2023

- Built an internal desktop tool for product visualization and selection
- Designed a system for matching customer preferences with custom designs

### WordPress Developer (Part-time) | All Tech Computer Institute | 2021 – 2022

- Developed and maintained WordPress websites with custom themes/plugins
- Handled updates, backups, and troubleshooting

## SKILLS

Python, Go, JavaScript, SQL

PyTorch, TensorFlow, RAG, LangChain, Hugging Face, Scikit-learn

FastAPI, Flask, PostgreSQL, MySQL, Redis, AWS, GCP

Leaflet, Google Earth Engine, Electron, FFmpeg, Remotion

## EDUCATION

B.Sc. Computer Science | Tai Solarin University of Education | 2023 – Expected 2027

## LANGUAGES

English (Fluent) | Chinese (Beginner)