

# FRANKLIN IKEH

JUNIOR BACKEND DEVELOPER

ikehfranklin06@gmail.com — +234-907-901-6973 — Lagos, Nigeria — [github.com/bruce-pain](https://github.com/bruce-pain) —  
[linkedin.com/in/franklin-ikeh](https://linkedin.com/in/franklin-ikeh)

---

## Work Experience

### Backend Software Engineer Intern

*HNG Internship Program (HNG11)*

*July 2024 – August 2024*

- Spearheaded development of critical features for two major web applications using FastAPI.
  - Designed asynchronous workflows with Celery and RabbitMQ, reducing task time by 20%.
  - Improved code reliability by 30% through unit testing with Pytest.
  - Built secure authentication systems with JWT and Google OAuth2.
  - Collaborated in an agile team with frontend, QA, and product teams for timely feature delivery.
  - Assisted with Docker-based deployment workflows to streamline scaling and development.
- 

## Key Projects

### Kwiki AI — AI-Powered Flashcard Generator

*FastAPI, React, PostgreSQL, Groq API*

- Built a full-stack platform to generate flashcard decks from topics using LLMs (DeepSeek-r1-distill-llama-70b).
- Engineered a scalable backend with JWT and Google OAuth2, using FastAPI and PostgreSQL.
- Implemented interactive study mode with spaced repetition on the frontend (React + Tailwind CSS).
- Deployed using Vercel (frontend) and Render (backend), with CI/CD via GitHub Actions.

### Fundraiser API

*FastAPI, SQLAlchemy, PostgreSQL*

- Developed a scalable fundraising platform with JWT authentication and campaign management.
- Integrated Cloudinary for media uploads and Paystack for secure payments.
- Built CI/CD pipelines with GitHub Actions; maintained 95%+ test coverage with Pytest.
- Managed database evolution using Alembic migrations and SQLAlchemy ORM.

### Picture.txt

*Python, FastAPI, OpenCV*

- Built an image-to-ASCII art converter using OpenCV and custom algorithms.
  - Exposed RESTful endpoints for image upload, processing, and download.
  - Implemented async processing for scalable high-volume conversions.
  - Optimized performance for responsive image handling and reduced latency.
- 

## Technical Expertise

- **Languages:** Python (3.x), SQL
  - **Frameworks:** FastAPI, Django
  - **Databases:** PostgreSQL (14), SQLite
  - **Tools:** Docker, Git, OpenCV, RabbitMQ, Celery, Linux/Unix, SQLAlchemy
  - **Other:** RESTful APIs, Test-Driven Development (TDD), CI/CD, Microservices
-

## Education

**B.Sc. Computer Science**  
*December 2023 – Present*

*University of Ilorin, Nigeria*