

# Franklin Ikeh

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## Technical Summary

Backend Software Engineer specialized in Python and FastAPI, experienced in designing scalable APIs, asynchronous task systems, and CI/CD pipelines. Known for adaptability, and for building practical solutions. Passionate about solving real problems with clean, maintainable backend systems.

## Experience

### Backend Engineer Intern (HNG Internship (HNG11))

Jul 2024 – Aug 2024

- Contributed to backend systems powering two production-level web applications using FastAPI.
- Designed asynchronous workflows with Celery + RabbitMQ, improving processing speed by 20%.
- Implemented JWT and OAuth2 authentication; strengthened code reliability with unit testing (Pytest).
- Assisted with Docker-based deployment and collaborated with cross-functional agile teams.

### Backend Engineer (Freelance)

Jan 2020 – Present

- Delivered multiple production-ready APIs for startups and university projects, including:
  - Fundraiser Platform:** Built a fundraising platform with JWT auth, student email verification, and Paystack integration for online donations.
  - CISSA Faculty Website:** Leading end-to-end development of the CISSA Faculty Website, FastAPI backend and Next.js frontend, delivering a responsive, admin-managed web system for students and faculty.
- Maintained CI/CD pipelines with GitHub Actions and uv for efficient environment management.

## Projects

### Kwiki AI: AI-Powered Flashcard Generator

FastAPI, React, PostgreSQL, Groq API

- Built an AI-driven flashcard app with FastAPI backend and React frontend.
- Integrated OAuth2, JWT authentication, and implemented CI/CD with GitHub Actions.
- 40+ registered users; 500+ flashcards generated.

### Picture.txt: Image-to-ASCII Converter

Python, FastAPI, OpenCV

- Built an image-to-ASCII converter API using OpenCV and async processing.
- Optimized image handling to reduce latency and improve throughput.

## Technical Skills

**Languages:** Python (3.x), SQL, TypeScript, JavaScript, HTML, CSS

**Frameworks & Libraries:** FastAPI, Django, Next.js, React, Tailwind CSS

**Databases:** PostgreSQL, SQLite, MySQL

**Tools:** Git, GitHub Actions, Celery, RabbitMQ, OpenCV, Linux, uv

**Concepts:** RESTful API Design, Asynchronous Processing, CI/CD, Microservices, TDD

## Education

B.Sc. Computer Science — University of Ilorin

2023 - 2027