Taiye Babatunde

+2348026155982 | taiyebabatundejames@gmail.com | babatunde-taiye.fly.dev | github.com/tarvel

EDUCATION

University of Ilorin   Ilorin, Kwara
B.Eng in Computer Engineering   *July 2021 – Present*

EXPERIENCE

Internship at HNG   July 2024 – August 2024
Remote

- Developed a Flask API to capture user IP (using X-Forwarded-For header if present) and provide location and weather info based on the IP
- Developed a REST API with Flask that enables JWT-based user authentication, registration and login. It supports organization management, user-organization linking, and secure data handling with bcrypt, organized using Flask Blueprints for modularity.
- Explored ways to visualize GitHub collaboration in a classroom setting

Internship at ICT Department of University of Ilorin Teaching Hospital   March 2025 – Present
On-site

- Operating System Installation & Troubleshooting.
- Computer Hardware Maintenance.
- Software Driver Installation.

PROJECTS

Blog | *Python, Flask, Sqlite, Flask-CKEditor, Disqus, Bootstrap*
- Built a personal blog that features text editing with Flask-CKEditor post editing, and pagination, with a responsive UI using Bootstrap.
- Developed admin page to manage blogs and blog post
- Enabled user comments with Disqus

Whatsapp Chatbot | *Python, Flask, WhatsApp Business API (Meta) Google Generative Language API*
- Developed a real-time WhatsApp chatbot using Python, integrating the WhatsApp Business API (Meta) and Google Generative Language API (Gemini 2.0) to enable automated, AI-powered responses.
- Built a Flask-based webhook server to handle incoming WhatsApp messages and verification requests.
- Integrated WhatsApp Business API to send and receive messages, authenticating with a bearer token.
- Utilized Google's Gemini model (v1beta) to generate conversational replies, customizing parameters like temperature and token limits.
- Processed JSON payloads for API communication and webhook data parsing.

TaskQueue | *Python, Flask, Redis, Celery*
- Developed a Flask-based task management application with features for adding, completing, and deleting tasks.
- Implemented email notifications using Celery and Redis to alert users when tasks become overdue.
- Incorporated timer-based scheduling for notifications, ensuring reminders are sent promptly based on deadlines.

AuthOrg API | *Python, Flask, JWT*
- Developed a secure, RESTful Flask API with JWT-based authentication, user and organization management, and custom error handling.
- Built registration and login with hashed passwords, email validation, and JWT-protected access to secure endpoints for authorized users.
- Enabled authenticated users to create, view, and manage organizations with role-based controls, using SQLAlchemy for efficient database transactions.
- Organized routes with blueprints, enforced validation, and provided clear error messages for a maintainable, robust API.

ResultSync | *Python, Playwright, Python-SMTP, Twilio*

- Developed automated result-checking functionality using Playwright to log in, navigate to the student portal, and verify result availability.
- Integrated Twilio API to send WhatsApp notifications to multiple contacts and implemented email alerts using SMTP, with credentials managed via environment variables for security.
- Created modular notification functions for both email and WhatsApp, ensuring real-time updates when results are released, with error handling for seamless notification delivery.

CERTIFICATIONS AND ACHIEVEMENTS

Data Privacy Tech Competition Certificate
- Recognized for participation in a tech competition focused on data privacy solutions. Contributed to building Mundus, a Chrome extension that simplifies data policies and enhances user privacy.

Cisco NetAcad Cybersecurity Certificates and Badges
- Introduction to Cybersecurity (Certificate)
- Network Basics, Resource Specialist (Badges)

Frontend Masters
- Intermediate Python Course (Certificate)

TECHNICAL SKILLS

Languages: Python, HTML, CSS
Frameworks: Flask, Django
Developer Tools: Git, Github, Docker, VS Code
Libraries: Playwright
Linux:bash