BABATUNDE TAIWO

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Skills

- **Languages & Frameworks**: Python | JavaScript | TypeScript | Django | Celery | SQL | NoSQL | Flask | React.js | Next.js | Express | C++
- **Tools & Technologies**: Microservices | Distributed Systems | Task Queues | API Development | GraphQL | WebSockets | Node.js
- **Infrastructure & Cloud**: Docker | Kubernetes | AWS | Google Cloud | CI/CD | RabbitMQ | Redis | Cloud Computing | Agile | OOP

Experience

Lead Software Engineer | Contract   16Bags   *Remote, UK*   **12/2023 - Current**

- Leading the backend development of a scalable marketplace using Django and Redis, achieving 40% faster API response times and 30% reduced background job execution time through optimized background task execution.
- Designed and implemented distributed task processing, ensuring fault tolerance and efficient job scheduling for the subscription service of the platform.
- Developed and optimized a real-time chat system and an analytics dashboard with Next.js, increasing user retention by 60%.
- Automated CI/CD pipelines using GitHub Actions and Docker, ensuring 99.9% uptime through Kubernetes-managed microservices.

Mid-Senior Web Developer   Ohmswich   *Reading, UK*   **03/2022 - 01/2023**

- Led a team of 12 engineers to develop a high-traffic booking platform with Django, PostgreSQL, and Celery, optimizing query performance by 35%
- Designed and implemented task queues using Celery, improving efficient asynchronous processing by 15% and background job execution by 20%.
- Mentored junior engineers, reducing code review iterations by 50% and expediting feature delivery by 20%.
- Built real-time analytics dashboards using GraphQL, enabling data-driven decisions that boosted business efficiency by 10%.

Lead Network Support Engineer   Arnergy Solar   *Lagos, Nigeria*   **05/2021 - 12/2022**

- Optimized fault detection and enhanced system reliability by 10x through Python scripting and real-time metrics analysis.
- Upgraded networking infrastructure, contributing to revenue growth from $350,000 to $450,000 in a single quarter.
- Developed automated monitoring solutions, integrating Python-based scripts to track system faults and inefficiencies, reducing fault recurrence per customer by 70% and minimizing breakdown downtime by 60%.
- Implemented predictive maintenance strategies in collaboration with cross-functional teams, reducing unexpected failures and improving overall system uptime.

Software Engineer | Contract   Contractor   *Remote, Global*   **03/2018 - 12/2023**

- Containerized applications with Docker, enabling seamless cloud deployment and reducing infrastructure costs by 65%.
- Developed 10+ full-stack applications with Django, Flask, Node.js, React and WordPress ensuring scalability and reliability for my clients.
- Engineered IoT solutions using Python, C++ and Arduino, achieving 95% circuit accuracy and reducing hardware production time by 30%.

Education

Masters of Science   University of Essex   *Colchester, UK*   **10/2022 - 10/2023**

- Computer Engineering

Bachelor of Technology   Bells University of Technology   *Ota, Ogun, Nigeria*   **08/2016 - 10/2020**

- Electrical and Electronics Engineering

Projects

AI-Powered Student Anomaly Detection System (Covenant University Detection App) Link

- Designed an AI-driven safety monitoring system using Django and Celery, achieving 95% detection accuracy and reducing response times by 40% with ONNX optimization.
- Integrated the AI models into a Next.js frontend, providing real-time data visualization.

BITalino EMG Signal Processor Link

- Developed a Python signal processing pipeline, improving EMG filtering efficiency by 35% and mobility outcomes by 15% for users with muscle impairments

Membership

- **Professional Member:** The chartered institute for IT **BCS**   **(02/2025)**
- **Professional Member:** The Institution of Engineering and Technology **IET**   **(02/2025)**
- **Member:** The International association of Engineers **IAENG**   **(03/2022)**
- **Graduate Member:** The Nigerian Society of Engineers **NSE**   **(07/2021)**