

# BABATUNDE TAIWO

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## Skills

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- **Languages & Frameworks:** JavaScript | TypeScript | Python | React.js | Next.js | Django | Redis | Flask | Express | SQL | NoSQL
- **Frontend & UI Development:** TailwindCSS | Responsive Design | WebSockets | React Testing Library | Jest | Vitest
- **Backend & Infrastructure:** Microservices | API Development | Redis | Docker | Kubernetes | Github Actions | AWS | Google Cloud
- **Methodologies:** Agile | OOP | Secure Coding | Testing Best Practices | CI/CD | Code Reviews | Scalable Architecture

## Experience

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| <b>FrontEnd Engineer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b><u>TiiQu Networks</u></b> | <b>London, UK</b>     | <b>03/2025 - Current</b> |
| <ul style="list-style-type: none"><li>• Leading the frontend development of the PDF2QA team in Tiiqu networks, a knowledge platform converting text to Q&amp;A content, driving product adoption and securing \$100K in pre-seed funding.</li><li>• Developed an open-sourced an internal UI component library with GitHub Actions and npm to standardize design across the Truth library and PDF2QA teams, improving developers velocity and code maintainability.</li><li>• Collaborating with backend teams leveraging AWS (EKS, S3, Cognito, EC2) to integrate microservices, ensuring high availability and observability.</li><li>• Advocated for modular design, code testing, and CI/CD reliability, resolving a four-month backlog within two weeks.</li></ul>                           |                              |                       |                          |
| <b>Lead Engineer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b><u>16Bags</u></b>         | <b>Remote, UK</b>     | <b>12/2023 - 03/2025</b> |
| <ul style="list-style-type: none"><li>• Architected and scaled a Django + Redis marketplace backend supporting real-time operations and asynchronous tasks, improving response times by 40%.</li><li>• Integrated a Next.js powered dashboards and a real-time chat system, boosting user retention by 60% and better insight for the top management team.</li><li>• Built Kubernetes and Docker-based CI/CD pipelines via GitHub Actions, achieving 99.9% uptime with automated deployments and proactive monitoring.</li><li>• Implemented event-driven services and serverless integrations for dynamic workload handling.</li></ul>                                                                                                                                                           |                              |                       |                          |
| <b>Mid-Senior Web Developer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b><u>OhmSwich</u></b>       | <b>Reading, UK</b>    | <b>03/2022 - 01/2023</b> |
| <ul style="list-style-type: none"><li>• Led the development of one of the first hospitality booking platforms in Africa (similar to Airbnb) using React, Node.js, and PostgreSQL, focusing on scalable backend architecture and a seamless frontend user experience.</li><li>• Designed and implemented robust data models to support complex booking, availability, and pricing structures. Built real-time analytics dashboards by integrating multiple data sources for business insights.</li><li>• Delivered full booking, payment, and property management workflows, mentoring junior developers and promoting clean code practices.</li><li>• Collaborated cross-functionally with design and business teams to align technical outcomes with customer value and business KPIs.</li></ul> |                              |                       |                          |
| <b>Lead Network Support Engineer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b><u>Arnergy Solar</u></b>  | <b>Lagos, Nigeria</b> | <b>05/2021 - 12/2022</b> |
| <ul style="list-style-type: none"><li>• Boosted system reliability 10x by developing Python-based fault detection and alerting pipelines, visualized through Grafana dashboards.</li><li>• Built end-to-end monitoring and observability systems, reducing fault recurrence by 70% and downtime by 60%.</li><li>• Spearheaded predictive maintenance and infrastructure optimization projects, driving an additional \$100K quarterly revenue.</li></ul>                                                                                                                                                                                                                                                                                                                                          |                              |                       |                          |
| <b>Network Engineer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b><u>Swift Networks</u></b> | <b>Lagos, Nigeria</b> | <b>03/2019 - 09/2019</b> |
| <ul style="list-style-type: none"><li>• Expanded and optimized internet coverage by 15% across densely populated areas and tertiary institutions in Lagos through the deployment of Cambium Networks infrastructure and access points for the Red-Cheetah project, with a strong focus on network reliability and precise large-scale deployments.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                       |                          |
| <b>NOC Engineer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b><u>Swift Networks</u></b> | <b>Lagos, Nigeria</b> | <b>06/2018 - 09/2018</b> |
| <ul style="list-style-type: none"><li>• Monitored network systems in real time to ensure high availability and performance, executing prompt troubleshooting and efficient fault escalation to minimize service disruptions.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                       |                          |

Contract Software Engineer

Contractor

Remote, Global

03/2018 - Current

- Delivered 10+ scalable full-stack web applications using Django, Flask, Node.js, and React, optimized for performance and cross-platform deployment.
- Designed and implemented IoT solutions with Python, C++, and Arduino, achieving 95% signal accuracy and reducing hardware production time by 30% through efficient firmware and system integration.
- Containerized and deployed distributed systems using Docker, cutting cloud infrastructure costs by 65% through resource optimization and automated deployments.

Education

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Masters of Science

University of Essex

Colchester, UK

04/2025

- Computer Engineering

Bachelor of Technology

Bells University of Technology

Ota, Ogun, Nigeria

10/2020

- Electrical and Electronics Engineering

Projects

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

- Built a Python-based AI model with 95% accuracy and optimized inference via ONNX.
- Integrated with a Next.js frontend to stream real-time webcam input and deliver responsive visual feedback.

BITalino EMG Signal Processor [Link](#)

- Developed a Python signal processing pipeline to filter EMG signals, increasing filtering efficiency by 35% and user mobility outcomes by 15%.

Membership

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- Professional Member: The Institution of Engineering and Technology IET (05/2025)
- Professional Member: The chartered institute for IT BCS (02/2025)
- Member: The International association of Engineers IAENG (03/2022)
- Graduate Member: The Nigerian Society of Engineers NSE (07/2021)