STEPHEN **IBEH**

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Languages: Python, C#; Javascript; PHP
Technologies/Frameworks: AWS, Docker, Kubernetes, Kafka, Redis, Elasticsearch, TensorFlow, Numpy
Tools: Git, Jenkins, JIRA, Grafana

EDUCATION

University of Michigan, Dearborn   *Jan 2024 - Current*
Master of Science, Artificial Intelligence
• Concentration in Machine Learning and Computer Vision with Out-Of-State Scholarship

Kwame Nkrumah University of Science & Technology, Ghana   *Aug 2013 - Jul 2017*
Bachelor of Science, Computer Engineering
• Specialized in Software and Systems Design Engineering
• Dean of Engineering College award winner 2016, 2017
• Graduated with Honors

PROFESSIONAL EXPERIENCE

JazzHR - Employ Inc   **Pittsburgh, PA**
Software Engineer   *Aug 2022 - Jan 2024*
• Engineered a scalable **OAuth2-based SSO** solution to integrate 40+ ATS such as BambooHR and ADP with JazzHR, reducing development cycles from 8 to 2 weeks, boosting user engagement by 30%, and subscription renewals by 20%.
• Developed a distributed caching solution with **Redis**, slashing API response times by up to 52% for our flagship partner APIs
• Integrated **ML** models into the product's job recommendation engine, achieving a 40% increase in customer conversion rates.

Zenith Bank   **Accra, Ghana**
Software Engineer   *Jun 2020 – Jul 2022*
• Architected micro-services using **.Net Core** and **PostgreSQL**, enabling 15,000 merchants to process transactions through the bank network, driving monthly transactions to GHS 125 million, bolstering Zenith's market share.
• Integrated **ML-based** chatbots for customer service, improving customer satisfaction scores by 35%
• Implemented standardized **RESTful API** for third-parties, enhancing the Zenith App's functionality and user experience.
• Automated deployments using **Docker** and **Jenkins**, reducing deployment times by 55% and increasing the team's productivity.

IFMA Cinema   **Berlin, Germany**
Software Engineer (Co-Founder)   *Oct 2017 – 2022*
• Engineered a scalable event-driven AWS-based streaming infrastructure for video ingest, processing, and delivery with S3, **Lambda**, SQS, **DynamoDB**, and **CloudWatch**, managed with **CloudFormation**, enhancing encoding and delivery efficiencies.
• Engineered IFMA's streaming platform, employing adaptive bitrate (ABR) streaming techniques and CDN strategies to optimize content delivery for thousands of users, resulting in a 65% improvement in streaming quality
• Implemented comprehensive automated testing frameworks using Selenium and JUnit, reducing bug rates by 32%

PROJECTS

Yamaha-CMU Off-Road Image Segmentation | *TensorFlow, MobileNets*   *Jan 2024 – Current*
• Semantic segmentation of off-road using transfer learning and MobileNets V3 Large.
• Training data from Yamaha-CMU Off-Road Dataset

Gvive Facial Recognition (gvivegh.com) | *C#, OpenCV Face Recognition Library*   *Aug 2019 – 2020*
• Research and development of Facial Recognition feature for Gvive (cloud-based Identity Verification Saas)
• Engineered pre-trained models for fast deployment in other African countries

Tawkto React *(npmjs.com/package/tawkto-react)* | *Javascript*   *Oct 2020 – 2022*
• An NPM package wrapper around Tawk.to JS API to help integrate into any React application with 2000+ weekly downloads

Kredify | Python, React A Buy-Now-Pay-Later Saas product. African version of AfterPay