Victor Ughonu

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Current role	Chief Technology Officer at Bloomers Technology Services Limited
Experience	Healthcare, B2B, Education, Fintech
Technologies	React, Docker, TypeScript, Redis, Node.js, Postgres, RabbitMQ, Next.js, GraphQL, Elixir, Phoenix, Apollo, Jest, AWS, Kubernetes, Redshift, MySQL, Prometheus, Grafana, MongoDB, GCP, Kafka, Elasticsearch...

Work experience

Chief Technology Officer, Bloomers Technology Services Limited Oct 2024 - Present (1y)

Healthcare

React Docker TypeScript Redis Node.js Postgres RabbitMQ Next.js

- Reduced infrastructure costs by 90% by leading the migration of all core services—including frontend, backend, dashboards, and databases—from DigitalOcean to a scalable cloud platform, significantly extending the company's financial runway.
- Spearheaded the transition of backend APIs from C# to NestJS, decreasing engineering hiring costs by 70% and accelerating feature development cycles by 30%, resulting in faster product delivery.
- Designed and led the implementation of a multi-tenant appointment scheduling system using Node.js and Prisma, enabling scalable B2B deployments for hospitals and increasing partner onboarding speed.
- Established a structured onboarding framework for junior engineers, mentoring new hires and cutting onboarding time by 50%, while improving long-term team productivity.
- Bridged the gap between technical and business teams by converting high-level product goals into actionable, well-scoped engineering tasks, reducing delivery delays by 60% and aligning development with business priorities.

Software Engineer II (Contract), Up Learn Limited Sep 2023 - Oct 2024 (1y 1m)

B2B · Education

React Docker TypeScript GraphQL Elixir Phoenix Apollo Jest

- Increased B2B acquisition by 500% by designing and implementing robust school onboarding APIs, enabling seamless partner integration and faster time-to-value.
- Migrated React components from JavaScript to TypeScript and introduced React Testing Library test coverage, significantly improving code quality and developer experience.
- Authored scoping documents, test plans, and comprehensive test suites for both frontend and backend features—using ExUnit for Elixir Absinthe GraphQL queries and Jest for React components—ensuring high reliability and maintainability.
- Built an A/B testing framework to safely roll out high-impact dashboard features to targeted student and school cohorts, supporting iterative feature validation and data-driven improvements.
- Integrated React Storybook into the development workflow to provide product managers with real-time access to UI components, accelerating feedback loops and improving collaboration.

Senior Backend Engineer, Dot Labs Ng (Formerly Dot FIT) Jan 2023 - Feb 2024 (1y 1m)

Fintech · Healthcare

React AWS Docker Kubernetes TypeScript Node.js Postgres Redshift

- Led development of a high-traffic retail web app for health insurance sales, boosting policy subscriptions by 25% in 3 months.
- Integrated with third party APIs fromHydrogen and GTBank for billing and payment services.
- Designed and implemented a scalable backend with NestJS, PostgreSQL, Prisma ORM, Redis, and Elasticsearch, enhancing transaction search speed by 300% and reducing database load by 50%.
- Created data replication pipeline from AWS RDS to Elasticsearch for real-time financial sync, enabling instant search capabilities and accurate data aggregation.
- Managed frontend development using Next.js 13, Redux Toolkit, and Tailwind CSS, ensuring design fidelity, accessibility compliance (WCAG 2.1), and UI responsiveness.
- Established reusable design system and component library, halving new engineer onboarding time and improving team delivery speed.

Software Engineer (Contract), Turing Enterprises Inc., CA C Corporation Feb 2022 - Oct 2022 (8m)

React TypeScript Redis Node.js MySQL Prometheus Grafana

- Boosted customer retention by 70% through the creation of a scalable NestJS API, facilitating job availability updates and enhancing real-time user interaction.
- Optimized email delivery rates by 50% and expanded outbound capacity by 200% by developing a domain warm-up algorithm with Redis and CronJobs to incrementally scale email traffic.
- Enhanced backend code integrity and sustainability by transitioning legacy JavaScript services to TypeScript and converting raw MySQL queries to TypeORM-managed queries.
- Implemented WhatsApp API integration into a NestJS service, enabling storage of customer messages in MySQL for improved multi-channel communication and a 40% increase in platform engagement.
- Developed comprehensive automated test suites using Node.js, Mocha, and Chai for a core email system, ensuring consistent API functionality and reducing errors during new feature rollouts.

Software Engineer (Contract), ProDevs Outsourcing Limited Mar 2022 - Aug 2022 (5m)

MongoDB Docker Kubernetes TypeScript GCP Kafka Node.js

- Improved code quality and reduced API latency by migrating 10% of cron jobs from a monolithic JavaScript codebase to TypeScript-based microservices, minimizing bugs caused by resource contention.
- Re-engineered the campaign participant CSV export process into an asynchronous, job-based microservice pipeline, increasing export throughput by 300%.
- Utilized NATS Streaming for scalable, decoupled communication across NestJS and Node.js microservices, supporting robust inter-service coordination.
- Maintained and delivered features within a NestJS microservice monorepo leveraging MongoDB (Mongoose), Redis, and Datadog; deployed via Docker and Kubernetes on Google Cloud Platform (GCP).
- Designed and implemented an internal admin tool for customer operations, reducing developer interruptions and improving engineering productivity by 10%.

Senior Software Engineer, Nomba.com (Formerly Kudi.com) Mar 2019 - Feb 2022 (2y 11m)

React | MongoDB | TypeScript | GCP | Elasticsearch | Redis | Node.js | BigQuery

- Developed Node.js accounting export feature to support various account statement formats, enhancing fraud detection by 5% and preventing over $50,000 in potential losses.
- Created React + Node.js dashboard with user-centric UI/UX design for real-time transaction monitoring, reducing resolution time from 1 week to 3 seconds.
- Migrated backend analytics from Google BigQuery to Elasticsearch, leading to a 70% decrease in query expenses and achieving sub-3-second API latency while maintaining compatibility.
- Integrated billing and payment services through third-party APIs including Monnify, FlutterWave, Hydrogen, and GTBank.
- Implemented automated float management algorithm, increasing transaction success rate by 20% and reducing chargebacks by 15% through elimination of manual fund routing.
- Overseeing code ownership of 5+ microservices, reviewing 200+ pull requests to ensure high-quality, coherent, and stable performance for critical financial operations.

Education

Obafemi Awolowo University Mar 2013 - Apr 2018 (5y 1m)

B.Sc. Electronic and Electrical Engineering

Snippets

SquareMe – Forex Microservices App **github.com**

A scalable microservice-based forex trading platform built with NestJS, gRPC, and Nx Monorepo. It supports buying/selling currencies with accurate arithmetic via Decimal.js, secure authentication using JWT with HTTP-only cookies, and resilient transaction handling through BullMQ retries. Designed for modularity, shared logic, and team efficiency—ideal for fintech use cases.