George Yusto, Full Stack Developer

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Date of birth	1992/29/03	**Nationality**	Tanzania
Place of birth	Morogoro	**Language**	English & Swahili

PROFILE

Energetic Full Stack Developer with 7 years experience building web, mobile and backend platforms end to end. Detail-oriented, organized and meticulous employee. Works at fast pace to meet tight deadlines. Enthusiastic team player ready to contribute to company success. Clear understanding of modern technologies, secure system design and best design practices.

SKILLS

- JS Frameworks: AngularJS, Angular, Next.js, React
- TypeScript and Node.js; Prisma ORM
- JAVA Framework and ORM: Spring Boot, Spring MVC, Hibernate
- C, C++
- Flutter framework (mobile application)
- Real-time: Socket.io, WebSockets, WebRTC (LiveKit)
- Message Broker: Kafka, RabbitMQ
- Caching: Redis
- Search Index tool: Solr, Apache Lucene
- Migrating tool: Liquibase, Flyway, Prisma Migrate
- Databases: MySQL, PostgreSQL, SQLite
- Web servers: Nginx and Apache; Traefik
- Containers & deployment: Docker, Coolify
- Source and Version Control: Git, GitHub
- Continuous Integration (Codemagic, GitHub)
- Software Testing: Vitest, Playwright, Flutter tests
- Payments & mobile money integration
- Laravel and CodeIgniter
- Microservices

EMPLOYMENT HISTORY

Oct 2026 – up-to-date **Lead Full Stack Developer (Contract), SHAM**

SHAM builds digital products for the Tanzanian market. I lead the design and development of its products, from architecture to production deployment.

Key projects & Technologies

- **Fyundi (Home-Services Marketplace):** Designed and built a platform that connects customers with verified tradespeople ("fundis") for plumbing, electrical, appliance and other home repairs: a Flutter customer app, a Flutter fundi app, a Next.js operations portal and a Next.js/TypeScript backend with Prisma and PostgreSQL, deployed with Docker on Coolify. Key capabilities included:
  - Smart dispatch: ranked matching, online/offline availability with live location, zone management and real-time job updates over Socket.io
  - Live tracking and navigation on vector maps (MapLibre) with road routing and shareable tracking links
  - Payments: PayGala mobile-money and card integration with signed requests, cash payments with a commission ledger, double-entry fundi wallets and payout accounts (mobile money and bank)
  - Configurable pricing engine: platform fee, commission tiers, travel and urgency fees, surge, cancellation rules and price estimates
  - In-app voice calls (WebRTC/LiveKit) with masked phone-line fallback (Africa's Talking Voice)
  - Security and privacy: field-level AES-256-GCM encryption with key rotation, masked personal data with audited reveal, staff two-factor sign-in, cookie sessions with CSRF protection, rate limiting
  - Operations console: fundi verification (KYC), disputes, complaints and safety queues, KPIs and CSV reports, staff invites, and a content manager for app banners, popups, update prompts and legal pages
  - Bilingual (English/Swahili) notifications, receipts with PDF and email, SMS sign-in codes
  - Performance: Redis caching with invalidation and SQL aggregation (busiest detail endpoints cut from 16 queries to 1)
  - Quality: 1,100+ automated backend tests, 270+ end-to-end API checks, Playwright browser tests, 770+ Flutter tests, and Android/iOS builds on Codemagic

  Technologies: *Flutter, Dart, Next.js, TypeScript, Node.js, Prisma, PostgreSQL, Redis, Socket.io, MapLibre, LiveKit/WebRTC, Firebase Cloud Messaging, Docker, Coolify, Codemagic, Vitest, Playwright*

- **SHAM Mauzo (Offline-first POS for Bars & Retail):** Designed the architecture of a multi-tenant point-of-sale product sold as subscription licences, serving bars (tabs, tables, rounds, happy hour, recipes and pour sizes) and retail shops (barcodes, variants, returns, promotions) on Android (Flutter), Windows desktop and web (Ionic), with a Next.js admin portal and API. Built the shared foundations:
  - Offline-first sync design: local database plus outbox, idempotent push/pull, append-only sales and stock movements, collision-free receipt numbers
  - Licensing: human-friendly licence keys with check digits, hashed key storage, Ed25519-signed licence tokens verified offline, device binding, grace periods and revocation
  - Shared rules engine (money in minor units, tax-inclusive pricing, cart totals, cash rounding) with language-neutral test fixtures every client must pass
  - PostgreSQL schema of 56 tables with row-level tenant isolation, an OpenAPI 3.1 contract and brand design tokens for web and Flutter

  Technologies: *TypeScript, Next.js, Prisma, PostgreSQL (row-level security), Redis, Flutter, Ionic, Electron, OpenAPI, Ed25519, Vitest*

April 2026 – up-to-date **Senior Software Developer, OTAPP**

OTAPP is a software company delivering enterprise messaging and transport management, event and cinema platforms. As a Full Stack Developer, my core activities included:

Key projects & Technologies

- **Otapp SMS (Enterprise Messaging Gateway):** Led full-stack development of a high-throughput SMS gateway platform, building an SMPP adapter to connect and route bulk messaging traffic through telecom providers. Integrated a payment gateway for automated billing and credit management, and exposed secure APIs enabling third-party clients to send SMS through the Otapp SMS platform. Built with a Java/Spring Boot backend and an Angular/TypeScript frontend.
- **BMS (Bus Management System):** Delivered end-to-end full-stack development of a bus management platform covering ticketing & booking, fleet and route management, and payments & reporting. Architected a robust Spring Boot backend with PostgreSQL/MySQL data layers and built responsive web interfaces using Angular/TypeScript and a Next.js frontend, ensuring a scalable and maintainable solution across modules.
- **Flight Management System:** Developed a comprehensive airline reservation and operations platform supporting flight scheduling, fleet allocation, route management, seat availability, passenger bookings, ticket issuance, payment processing, and reporting. Designed scalable APIs and modular backend services to support future integrations with external aviation systems.

  Technologies: *Java Spring Boot, Angular, PostgreSQL, REST APIs, Docker*
- **Otapp Chat (AI RAG Chatbot Platform):** Designed and developed an AI-powered Retrieval-Augmented Generation (RAG) chatbot platform for enterprise knowledge management and customer support. Integrated Large Language Models (LLMs), vector search, embeddings, and document indexing to provide intelligent responses from company documentation and FAQs. Key capabilities included:
  - FAQ Automation
  - Customer Support Chat
  - Internal Knowledge Assistant
  - Context-aware conversations
  - Document search and retrieval
  - AI-powered semantic search

  Technologies: *Java Spring Boot, Ollama, OpenSearch, PostgreSQL, LLMs, Vector Embeddings, Docker*

Feb 2020 – April 2026 **Senior Software Developer, UCC**

UCC (University of Dar es Salaam Computing Center) is a software development company which has a number of projects. As a Software Developer, my core activities included:

Key projects & Technologies

- **Nixlink (Courier Management System):** Led full-stack development of a multi-platform logistics solution, including a Flutter mobile app, Angular admin web portal, and a Spring Boot RESTful API with PostgreSQL. Architected features for real-time tracking, dispatch, and customer management.
- **CTC2 Web (Healthcare System):** Developed and maintained a critical Health Management Information System (HMIS) using Angular & Dotnet. Ensured high reliability, data integrity, and performance for healthcare reporting

and patient data management used across multiple facilities.

- **Afyacare (Healthcare System):** Built a comprehensive healthcare web application and API with Spring MVC, AngularJS, MySQL, and PostgreSQL. Focused on creating a scalable backend for patient records, laboratory, integration, clinical module and billing modules.
- **LIS Integration (Laboratory Machine Integration):** Built a service that connects laboratory analysers (haematology, clinical chemistry, microbiology and parasitology) to the hospital lab system. Results arrive over serial ports and HL7 v2.1–2.6 (HAPI), each machine parameter is mapped to a lab-system test, and every received message is kept in a backlog. Built with Spring Boot, Quartz scheduling and an Angular frontend.
- **UCC Corporate Website & CMS:** Engineered the company's main website and intuitive content management system using Laravel and MySQL, enabling efficient content updates by the marketing team.
- **BRAC Web Platform:** Contributed to a large-scale web application, initially developed with React frontend and Laravel backend, and later involved in migrating the backend to Yii2 to enhance performance and long-term maintainability.

Achievements

- Revised, modularized and updated old code bases to modern development standards, reducing operating costs and improving functionality.
- Collaborated on stages of systems development lifecycle from requirement gathering to production releases.
- Designed and maintained streamlined, reusable and reliable code for use within distributed cloud environments.
- Designed intuitive graphical user interfaces using knowledge of serial communications and database design to improve user experience.
- Participated in cross-functional projects while working in lean development environments.

Nov 2019 – Jan 2020 **Front-End Developer, Studiolife**

Key projects & Technologies

- **Hurru platimum:** Developed a payment processing web platform for mobile financial services using CodeIgniter and jQuery. Implemented USSD push notifications for real-time transaction alerts and reporting. The system handled payment reconciliations and provided a dashboard for merchant transactions.

Achievements

- Planning site designs, functionality and navigation, along with audience funnels and data capture points.
- Building wireframes & prototypes which were then turned into functional and responsive digital products.
- Reviewing work with teams and making necessary edits to accommodate technical or business concerns.
- Developing site content and graphics in partnership with writers and creative director.
- Handling all composition, color, illustration, typography, and branding for projects.

April 2019 – Oct 2019 **Full Stack Developer, GlobalSoft**

GlobalSoft is a company devoted to software development and I was given two projects to deal with. As the developer, my core activities included:

Key projects & Technologies

- **Real-Time Chat Application:** Built a live customer support chat system using JavaScript with WebSockets/Socket.io for the frontend real-time layer and a robust Object-Oriented PHP backend. Features included instant message delivery, user online/offline status, and persistent chat history to improve customer engagement and support efficiency.
- **Point-of-Sale (POS) Desktop System:** Built a robust desktop POS application using Java Spring Boot, featuring inventory management, sales transaction processing, receipt generation, and daily sales reporting for retail environments.

Achievements

- Revised, modularized and updated old code bases to modern development standards, reducing operating costs and improving functionality.
- Designed intuitive graphical user interfaces using knowledge of serial communications and database design to improve user experience.
- Developed software for desktop.
- Planned and developed interfaces that simplified overall management and offered ease of use.

- Collaborated with project managers to select ambitious, but realistic coding milestones on pre-release software project development.

2017 **Web Designer**

I managed to develop and design websites for two companies located in Moshi and Arusha:

- obreysafaris.com
- welink.co.tz

SIDE PROJECTS

- **Flowbitly** — *Forms, Approval Workflows & AI Document Extraction (coming soon)*
  Multi-tenant SaaS built with Java Spring Boot, Next.js, PostgreSQL, RabbitMQ and Redis.
  Drag-and-drop form builder, visual approval workflow designer, and document extraction with local Ollama models.
  Preview at flowbitly.app.
- **Keshopay** — *Payment Orchestration (with Kesho Technologies)*
  Built with Next.js, Prisma, PostgreSQL, Redis, BullMQ and Vault.
  Multi-tenant mobile-money payments, refunds, payouts, payment links and reconciliation, with separate sandbox and live environments, maker-checker approvals and an immutable audit trail.
- **Convospots** — *IRC Chat Application*
  Built using Angular (frontend) and C on UnrealIRCd (now moving to a Java-based IRC platform).
  Features real-time messaging, multi-room channels, and modern UI/UX for seamless community chat experiences.
  convospots.com
- **QuickBook Mediator** — *Financial Data Integration Tool*
  Developed with Java Spring Boot and SQLite.
  Acts as a middleware to integrate QuickBooks with other systems, simplifying accounting workflows and enabling smooth data synchronization.
- **WildHornsafaris** — *Tourism Website*
  Developed using Angular.
  Showcases safari packages, destinations, and booking features with a responsive and visually engaging layout tailored for the tourism sector.
- **Kajodewanderlust** — *Tourism Website*
  Built dynamic tourism website using Angular frontend with PHP backend and JSON-based data layer.
  Focused on content presentation and user engagement for travel audience.
  Demonstrated full-stack capabilities with lightweight database alternative.

EDUCATION

2018 **Tumaini University of Makumira — Bachelor's of Science in Information Technology**
Excelled in Software Development

REFEREES

Benedict Mwasamwene
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