

# SHADRACK OMARY, M.D.

Senior Front-End Engineer

Tanzania (Remote) | goldenshaddyt@gmail.com | linkedin.com/in/shaddyt | +255 782 128 594

## PROFESSIONAL SUMMARY

Senior Front-End Engineer with a unique background in Medicine and Quantitative Finance. Expert in architecting complex, high-frequency trading dashboards and real-time data visualization tools. Proven track record of translating volatile market logic into stable, type-safe React architectures. Experienced in leading technical strategy, optimizing performance for large datasets, and mentoring engineering teams in remote environments.

## TECHNICAL SKILLS

- **Core Stack:** TypeScript, React.js, Next.js, Node.js, JavaScript (ES6+), HTML5, CSS3
- **Architecture & State:** React Query, Redux Toolkit, Context API, Micro-frontends, SSR
- **UI & Design:** Tailwind CSS, Material UI (MUI), Styled Components, D3.js, Recharts
- **Backend & Data:** PostgreSQL, Supabase, Python (Pandas/NumPy), WebSockets, REST, GraphQL
- **Testing & DevOps:** Jest, React Testing Library, Cypress, CI/CD (GitHub Actions), Docker, AWS

## PROFESSIONAL EXPERIENCE

### ZANDBOX, LLC

Remote

Senior Front-End Engineer & Project Lead

Jul 2024 – Present

- **Architectural Ownership:** Designed and built the core frontend architecture for a multi-module MetaTrader 5 (MT5) Accounting and KYC platform, serving institutional clients.
- **Performance Optimization:** Engineered a custom data-grid system capable of rendering 10,000+ transaction rows with virtualization and memoization, reducing time-to-interactive by 40%.
- **Real-Time Data:** Implemented WebSocket integration for live PnL and hot-wallet balance updates, utilizing optimistic UI patterns to ensure zero-latency user feedback.
- **System Scalability:** Decoupled the monolithic UI into feature-based modules (Accounts, Deals, KYC), enabling parallel development and reducing regression bugs by 25%.
- **Leadership:** Defined strict TypeScript/ESLint standards and led code reviews for a team of 4 developers. Mentored juniors on React design patterns and state management strategies.

### INDEPENDENT QUANTITATIVE DEVELOPER

Remote

Algorithmic Trading Engineer (Python/MQL5)

Jan 2021 – Jul 2024

- **Backtesting Engines:** Built custom Python-based backtesting pipelines using `ccxt` and `pandas` to simulate high-frequency strategies, processing over 5 years of tick data to validate edge.
- **Automated Trading Systems:** Developed "GOTAFIMA," a copy-trading bot for Binance Futures, integrating real-time exchange APIs to execute sub-second order management logic.
- **Analytics Dashboards:** Built React-based monitoring tools for Expert Advisors (EAs) to track heartbeat signals and execution latency, visualizing drawdown and equity curves for investors.

### FASTBULL

Remote

Front-End Developer

Mar 2021 – Jul 2024

- **UI Stability:** Refactored legacy codebases for a global forex analytics platform, resolving critical layout shifts (CLS) and improving cross-browser compatibility for 10,000+ daily users.
- **Internal Tooling:** Developed internal admin panels for the support team to visualize user trading behavior, reducing ticket resolution time by roughly 20%.
- **Collaboration:** Partnered with product managers to translate complex financial requirements into intuitive UI flows for retail traders.

## KEY PROJECTS

### ChainVitals (Telehealth Platform) | React, Supabase, Node.js

- Bridged medical expertise with engineering to build a tokenized telehealth platform. Designed secure, HIPAA-compliant patient data flows and real-time chat interfaces for doctor-patient consultations.
- Implemented role-based access control (RBAC) and modular layouts to separate clinician tools from patient dashboards.

### Wanda Gordon Booking System | Next.js, TypeScript, Tailwind

- Engineered a high-performance SSR application for a personal brand, achieving a 98/100 Lighthouse performance score.
- Built a custom logic-driven booking engine from scratch, eliminating reliance on third-party widgets and reducing page load overhead.

EDUCATION

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Doctor of Medicine (M.D.)

2019 – 2024

University of Dodoma

- *Transferable Skills:* Diagnostic problem solving, high-pressure decision making, and complex systems analysis.