

# OPIA FRANK

Fullstack Software Engineer · Mobile-first

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## SUMMARY

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Fullstack Software Engineer with 4 apps live on App Store and Google Play. Build cross-platform mobile apps in Flutter, web in React, and backends in Rust (Actix-Web), Java (Spring Boot), and Swift (Vapor). Deployed Solana on-chain programs in Rust. Domain experience spans AI products, fintech, Web3 / blockchain, and healthcare platforms.

## TECHNICAL SKILLS

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**Languages:** Dart, Rust, Java, TypeScript / JavaScript, Swift, Solidity, C++

**Frontend:** Flutter, React, Next.js, Tailwind CSS

**Backend:** Actix-Web (Rust), Spring Boot (Java), Vapor (Swift), REST, WebSockets

**Blockchain:** Solana (Anchor, on-chain programs), Ethereum, BSC, Base, Web3j

**Databases:** PostgreSQL, MySQL, MongoDB, Redis, Firebase, Appwrite, Supabase

**Cloud & Observability:** AWS, Grafana / Loki, Prometheus, Datadog, Sentry, AppSignal

**Integrations:** Stripe, Paystack, Twilio, OpenAI, Riverpod

## EXPERIENCE

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**Mobile & Web3 Researcher** | EntryPoint Labs Present

*Web3 and AI research company.*

- Researching Web3 protocols, blockchain ecosystems, and AI-driven application patterns
- Contributing to mobile and decentralized application development initiatives

**Mobile Engineer** | FriendnPal Apr 2025 – Present

*Africa's first AI mental health app — a safe space where healing begins without judgement, pressure, or stigma.*

- Built real-time chat in Flutter using WebSocket.IO for bidirectional message streaming
- Integrated AI-powered conversational layer for mental health support workflows
- Optimized rendering paths and reduced frame drops on mid-tier Android devices
- Shipped to App Store and Google Play; serving users across the African market

**Mobile Engineer** | Feedr (Relay) Contract

*AI prompt engineering tool — transforms messy thoughts into clean, structured prompts for GPT, Midjourney, Cursor, and more.*

- Building Flutter mobile app from scratch for AI prompt structuring product
- Designing UX flow for transforming raw user input into structured prompts across multiple AI tools

**Mobile Engineer** | Meno Bible App Contract

*AI-powered Bible app with personalized study plans, smart insights, and a global faith community.*

- Integrated OpenAI API with Riverpod state management for streaming AI Bible study features
- Built audio playback engine for sermon and devotional content
- Shipped live session feature enabling real-time multi-user community interaction
- Published live on App Store and Google Play

## PROJECTS

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### **Invoice Platform** — *Rust, Actix-Web, PostgreSQL, Redis, Stripe*

- Built multi-tenant invoicing API in Rust with tenant-isolated data access
- Integrated Stripe payments with idempotent webhook handling and retry logic
- Implemented recurring invoice scheduling using apalis background workers
- Built signed outbound webhook system for tenant integrations
- Added circuit breakers and rate limiting for downstream API resilience
- Exposed Prometheus metrics for production observability

### **Springten — Web3 Crypto Wallet** — *Java 17, Spring Boot 3.x, Web3j, Flutter, Firebase*

- Built Spring Boot 3.x backend with JWT auth and refresh token rotation
- Implemented multi-blockchain wallet support across Ethereum, BSC, and Base via Web3j
- Built transaction history layer with on-chain data sync and pagination
- Developed companion Flutter app with Firebase auth and real-time wallet sync

### **Nutrifi — Solana On-chain Program** — *Rust, Anchor, Solana*

- Wrote and deployed on-chain program in Rust using the Anchor framework
- Implemented account validation, PDA derivation, and instruction handlers

### **Solflare Clone** — *Flutter, Dart, Solana*

- Building Solana wallet app in Flutter, modeled after Solflare's UX
- Integrated Solana RPC for keypair management, SPL token transfers, and transaction signing

### **Qent — Car Rental P2P Platform** — *Rust / Actix-Web, React, Flutter*

- Building peer-to-peer car rental marketplace with web and mobile clients
- Built REST API in Rust + Actix-Web handling listings, bookings, and user auth
- Designed shared API contract serving both Flutter mobile and React web clients

### **Coffee App** — *Flutter, Swift, Vapor*

- Built REST backend in Swift using the Vapor framework
- Developed Flutter mobile client consuming the Vapor API

### **Fintech UI** — *Flutter, Dart, Firebase, Paystack*

- Built Flutter mobile banking app with email and OTP authentication flow
- Implemented budgeting dashboard with category tracking and spend visualization
- Integrated Paystack for in-app deposits and transfers

## PUBLISHED APPS

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**Live on App Store & Google Play:** FriendnPal (AI mental health), Bebe (couples widget), Meno (AI Bible study), Clawkin (cat care), LoveUp (social)

## EDUCATION

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**Bachelor of Science, Applied Mathematics**

*University of Lagos, Akoka*