Taha Ilyas

React Native & Full-Stack TypeScript Engineer

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SUMMARY

Mobile and full-stack engineer who takes products from idea to production. Published 4 Android apps on Google Play, led by TChess with 1,000+ installs and a 4.8 rating. Strongest in React Native, Expo, TypeScript, Next.js and Supabase, with native Android work in Kotlin and Jetpack Compose. Uses Claude Code daily, backed by automated tests and disciplined releases. Has worked in startup teams and remotely.

EXPERIENCE

Founder & Lead Mobile Engineer, Optivio Automation **May 2023 - Present**

Remote. Software studio publishing Android apps, automation systems and AI voice agent services.

TChess: chess training app for Android and web (app.tchess, tchess.app)

- Built and shipped the app with React Native 0.86, Expo 57 and TypeScript, plus a Next.js web version and admin panel, reaching 1,000+ Play installs and 500+ monthly active devices.
- Integrated the Stockfish 17.1 engine through a custom NDK/JNI native module, and traced production memory issues through Sentry to fix engine lifecycle handling.
- Designed subscriptions across RevenueCat, Google Play Billing and Paddle, with 11 Supabase Edge Functions, 48 Postgres migrations and row-level security. The server-held trial survives reinstalls and device clock changes.
- Maintained 1,500+ automated test cases across app and web, plus an engine check that replays all 60,000 bundled puzzles.

DareClock: alarm app dismissed by camera-verified exercise (com.dareclock)

- Built a native app in Kotlin 2.2, Jetpack Compose, CameraX and on-device ML Kit pose detection, and shipped 7 releases in 3 weeks.
- Implemented exact alarms, a foreground ringing service, boot recovery and an offline event queue, with Play Billing, RevenueCat and 200 JUnit tests.

Chess content automation: short-video pipeline (github.com/realtahailyas/chess-reels)

- Built a pipeline with Python, FFmpeg, Remotion and Playwright that renders and publishes narrated reels to Instagram, YouTube, Facebook and TikTok.
- Logged 1,078 published posts across 73 days, with 480,000+ recorded plays, 237 unit tests and a Next.js control dashboard.

AI Developer, Techccine (Pvt.) Ltd. **Sep 2025 - Nov 2025**

Full-time, on-site, Pakistan

- Built an AI voice agent as part of the company's engineering team.

OTHER PROJECTS

- **reverse-engineer-app-skills:** 11 Claude Code skills that cover app research, architecture, build, testing and launch (MIT license).
- **kdp-puzzle-book-generator:** Python generator for print-ready puzzle book interiors and covers.
- **CertForge:** early AWS exam prep app published on Google Play, built with React Native and Supabase.

SKILLS

Mobile: React Native, Expo, TypeScript, Kotlin, Jetpack Compose, CameraX, ML Kit, Android NDK/JNI, Google Play release management
Web and backend: Next.js, React, Node.js, Supabase, PostgreSQL, Row-Level Security, Edge Functions, Vercel
Payments and analytics: RevenueCat, Google Play Billing, Paddle, Sentry, PostHog, Firebase Cloud Messaging
Automation and AI: Python, Playwright, FFmpeg, Remotion, Claude Code, OpenAI API, LLM tool calling, n8n
Testing and tools: JUnit, node:test, unittest, Git, GitHub

EDUCATION

BS Computer Science, University of Karachi **2023 - Present**

LANGUAGES

English, Urdu