

Suleman Khan

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Professional Summary

A versatile mobile app and a full-stack developer with over 5 years of experience architecting and deploying robust, scalable web applications and mobile apps. Proven expertise in modern JavaScript frameworks with a strong track record of delivering end-to-end solutions that improve performance and user engagement.

Work Experience

Software Engineer

Rozka Capitals, UAE (Hybrid)

Technology Stack: Flutter 3, Dart, FiveX Payment Gateway, MT5 Bridge, Firebase Cloud Messaging (FCM), Record, Audioplayers, VideoPlayer, Local MD5 Filesystem Cache

- Engineered a production fintech mobile CRM in Flutter & Dart live on Google Play, reducing the client onboarding and MT5 account provisioning cycle from hours to under 60 seconds.
- Built an atomic internal transfer engine with client-side UUID idempotency validation, guaranteeing zero ledger state drift and eliminating duplicate debit/credit mutations across Standard and STP accounts.
- Integrated a multi-rail treasury payment system supporting automated Bitcoin (BTC) QR address generation, FiveX payment gateway, bank wire, and regional mobile wallets with sub-1.2s balance telemetry.
- Designed and deployed a bank-grade 3-step KYC verification workflow with in-app camera/file pickers and memory-bounded multi-part uploads strictly under 20MB.
- Implemented an Introducing Broker (IB) partner management portal with dynamic 8-digit referral codes, real-time lot rebate tracking, deposit commission toggles, and payout analytics.
- Developed and published a real-time broker support mobile client on Google Play featuring WhatsApp-style voice note messaging with live amplitude waveform streaming and preview scrubbing.
- Engineered an intelligent dual-stage background cache synchronization engine with deterministic MD5 file hashing, achieving sub-300ms voice note playback and 100% offline ticket availability.
- Implemented an in-memory Damerau-Levenshtein distance algorithm resolving typo-tolerant FAQ knowledge base search in under 15ms without server roundtrips.
- Integrated high-definition video walkthroughs rendered within a custom smartphone bezel frame widget (`PhoneFrameChassis`) alongside native OS telephony shortcuts (phone dialer, WhatsApp API, and Google Maps HQ directions).
- Enforced enterprise mobile security with defensive trailing-slash API URL sanitization and non-dismissible Google Play immediate in-app updates (`InAppUpdate`).

Project 1 Link: <https://suleman-background.netlify.app/mobile-app-1>

Project 2 Link: <https://suleman-background.netlify.app/mobile-app-2>

Zubaida Diagnostics, Pakistan (Hybrid)

Technology Stack: React 18, Node.js (Express), PostgreSQL, Prisma ORM, C# WinForms (.NET 4.0, WIA 2.0 COM), Electron 22 (Portable), Nginx, ESC/POS Thermal Printing, Ubuntu Linux (LXQt)

- Architected a multi-floor air-gapped hospital queue and diagnostic imaging intranet across 3 physical floors, slashing token issuance times from 4+ minutes to 35 seconds.
- Developed a driverless thermal token printing engine via direct ESC/POS USB socket commands, paired with hands-free 2D QR code re-scanning for returning patient check-in.
- Isolated legacy Windows 7 radiological computers using dual-NIC USB-to-LAN hardware bridges and portable Electron 22 shells, preventing packet intrusion on X-Ray machines.
- Engineered a custom C# WinForms desktop bridge using WIA 2.0 COM on a dedicated STA thread, streaming Epson L3210 physical scans directly into the web clipboard without manual file explorer dialogs.
- Built a client-side multi-page PDF dossier generator using `pdf-lib` and HTML5 canvas, consolidating high-resolution X-Rays, lab reports, Ultrasound, PFT, and prescriptions into a unified document with zero server CPU overhead.
- Configured an always-on 24/7 Ubuntu Linux server host on static IP with Nginx reverse proxy and 100MB streaming buffers for radiological images.

Project Link: <https://suleman-background.netlify.app/healthcare>

Ahead, Australia (Remote)

Technology Stack: Firebase (Auth, Functions, Hosting, CDN), GraphCMS (Headless CMS, GraphQL), Bitbucket, JIRA, Slack, Vue.js

- Engineered a secure Firebase authentication system for a production app, ensuring 100% reliable user login and account protection for thousands of users.
- Architected 20+ scalable serverless functions with Firebase, reducing backend infrastructure costs by an estimated 40%.
- Deployed a production-ready application using Firebase hosting and CDN, achieving fast global load times.
- Managed source code using semantic commits in Bitbucket and followed Agile/Scrum methodology via JIRA, improving team collaboration and project transparency.
- Integrated a headless CMS (GraphCMS), slashing content update time by 90% for the marketing team.

8base, United States (Remote)

Technology Stack: 8base (Backend-as-a-Service, GraphQL), Auth0, Netlify (CDN, Hosting), Namecheap, Serverless Functions, Vue.js

- Designed and structured 15+ managed database tables in 8base, supporting over 10,000 records with sub-second query performance.
- Built full CRUD operations using GraphQL, improving data management efficiency by 30%.
- Integrated robust authentication and authorization using the 8base console and Auth0.
- Configured a custom domain and established a continuous deployment pipeline with Netlify, streamlining release cycles.
- Deployed a globally available application on Netlify CDN, achieving a 95+ Google PageSpeed Insight score and load times under 2 seconds.

eDesignerz, United States (Remote)

Technology Stack: .NET, WinForms

- Developed an automated bulk image merging tool, reducing a 4-hour manual process into a 5-minute automated task, saving 40+ hours per month.
- Enhanced application functionality by adding dynamic text overlay with auto-adjusting font sizes.
- Implemented background processing, enabling the application to handle 1,000+ image merges without interruption.

Armor Investments, Egypt (Remote)

Technology Stack: ASP.NET Core, REST API, MongoDB, JAMstack, Electrum, Buddy CI/CD, Vue.js

- Migrated communication from legacy protocols to REST APIs, improving system scalability to handle a 200% increase in user traffic.
- Transitioned the database to MongoDB, enhancing query performance by 60% and reducing storage costs by 25%.
- Developed a JAMStack-based frontend with CDN hosting, achieving faster load times and improved global performance.
- Deployed and configured a secure VPS environment on CentOS, ensuring reliable and optimized hosting.
- Integrated an automated crypto payment solution, processing 1,000,000 Satoshi in transactions without manual intervention.

Project Link: <https://github.com/WhiteBookmark/Faucet4u>

Dollar Info Tech, India (Remote Internship)

Technology Stack: .NET, WinForms, Node.js, Socket.IO

- Optimized server-client communication by fixing Node.js bugs, increasing speed by 8%.
- Enhanced system monitoring capabilities by integrating recording of active applications, browser tabs, and hardware info.
- Improved remote data collection by implementing screenshot capture in base64 format via HTTP POST.
- Developed a custom installer that reduced software deployment and configuration time from 1 hour to under 5 minutes.

Education

Middlesex University, Dubai, UAE, Bachelor of Science Honours Information Technology 2025

Transferred Diploma Credits and Graduated in 2025

Shahjee Collegiate, Karachi, Pakistan, Bachelor of Commerce (Audit Student) 2021-2022

Aptech, Karachi, Pakistan, Advanced Diploma in Software Engineering 2016-2020

Skills & Technologies

API & Standards: REST APIs, GraphQL

Databases: MongoDB, PostgreSQL, MS SQL

Tools: Git, JIRA, 8base, GraphCMS, WordPress

Languages: JavaScript, Dart, HTML5, CSS, SQL, C# (.NET)

Frameworks & Libraries: Vue.js, Node.js, ASP.NET Core, WinForms, Flutter, React, Express, Electron

Cloud & DevOps: Twilio, OpenAuth, VPS (CentOS/Lubuntu), CI/CD (Buddy, Netlify), Firebase (FCM, Auth, Hosting), Nginx/Apache