Sana Fatima

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Software Engineer with over 3 years of experience specializing in building complex Fintech Web and Mobile applications from scratch. Expert in the React and React Native ecosystem with a proven record of replacing unstable legacy "patch-fixed" workflows with robust, zero-bug architectures. Specialized in integrating secure financial protocols (Plaid, Authorize.net, In-App Purchase, Apple/Google Pay) and data-driven growth tools (PostHog, Engage) to scale products from MVP to production.

Professional Experience

Software Engineer, Carbonteq, Lahore, Punjab
Feb 2023 to Present

Legacy System Transformation: Refactored the mission-critical withdrawal flow in TwinX; replaced multiple unstable patch-fixes with a centralized, reliable architecture, resulting in **zero reported bugs post-deployment**.

Data-Driven Growth: Integrated PostHog and Engage to architect a user retention system; built custom cohorts that enable targeted notification and email campaigns based on real-time behavior.

Full-Stack Ownership: Developed and maintained frontend/backend for investment platforms, ensuring secure handling of retail and accredited investor data. Built and deployed React Native iOS & Android applications from scratch.

Process Leadership: Contributed to Agile sprints and **mentored junior developer** to deliver production-ready features in fast-paced environments.

Salesforce Developer Intern, Insight Computing Solutions
Sep 2022 to Oct 2022
I worked as a Salesforce developer where I learned multiple aspects of Salesforce. The main focus was development and integration with other software.

Python Intern, ML Sense Ltd.
Feb 2022 to Apr 2022
Worked on different domains including React.js, Django, and Google Cloud.

Education

FAST, National University of Computer and Emerging Sciences
MS (Computer Science), Jan 2024 to Jul 2026

FAST, National University of Computer and Emerging Sciences
BS (Computer Science), Sep 2018 to Dec 2022

Areas of Expertise

- Languages: TypeScript, JavaScript, C/C++, Java.
- Analytics (PostHog, Engage)
- Mobile: React Native, Firebase (Analytics, Crashlytics, Messaging), Notifee, Mapbox, In-App Purchases.
- Frontend: ReactJS, Next.js, Redux, Zustand, React Query, Tailwind CSS, AntD, Gluestack UI, Panda CSS, Webpack.
- Backend: Nest.js, Express, Node.js, Postgres, Google Cloud, Firebase.

Projects

CDSS (Clinical Decision Support System)

- Tech Stack: TypeScript, Python, Next.js, FHIR, Docker
- Clinical decision-support system where AI follows clinical pathways: pathways are written in a structured spec and validated, then an engine runs them against synthetic patient records on a local FHIR server.
- Includes a Next.js clinician workspace that shows each encounter with its pathway graph.

ShareView

- Tech Stack: TypeScript, TanStack, Bun, Postgres, Drizzle, Docker, Chrome extension
- Review hub for design deliverables (HTML prototypes, markdown, video, screenshots), with comments pinned to the work and share links so clients can review and approve a version without joining.
- ShareView Capture, a Chrome extension, records a tab or takes screenshots straight into a project.

TwinX & Twin Premium

- Tech Stack: Next.js, TypeScript, Plaid, Authorize.net, AntD, Nest.js, Postgres
- Architected the Merchant Cash Advance (MCA) functionality from the ground up for the Twin platform
- Developed and maintained the entire web frontend and backend of TwinX and Twin Premium, finance investment platforms for retail and accredited investors and loan takers.
- Refactored old flows and achieved zero post-deployment bugs

TwinX Mobile App

- Fintech Infrastructure: Built the entire mobile frontend using React Native and TypeScript.
- Security: Integrated Plaid for bank linking, biometric authentication, and 2FA-secured logins.
- Core Feature Development: Built interactive investment dashboards, real-time charts, notification system and document upload systems.

Reventure Mobile App (4.7+ rating, 10k+ downloads)

- Commercial Features: Built the frontend using React Native, including the full implementation of In-App Purchases (IAP).
- Geospatial Integration: Utilized Mapbox for maps and Firebase for real-time notification systems.
- Design: Collaborated with the design team to implement responsive and user-friendly UI/UX designs.

Honeycomb Credit Ecosystem (Mobile, Admin, & Web)

- Developed the mobile app from scratch, implementing responsive UI/UX and global state management with Zustand and Redux. (**4.7+** rating)
- Maintained admin and investor panels web apps, integrated Google and Apple Pay.
- Conducted rigorous code reviews and provided technical feedback to maintain high-quality codebases.

Technical Utilities

- **Automadeasy:** Built an educational tool using React and TypeScript animations.
- **Configurable Datagrid:** Developed a React widget for dynamic JsonPath mapping and paginated data display.
- **GitHub Search & Event Calendar:** Engineered high-performance apps utilizing custom hooks, infinite scrolling, and Redux state management.