Saad Khan

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Education

- **Bachelors in Software Engineering**
  UET, Taxila
  2013 - 2017

Experience

- **Head of Software Engineering**
  WiMetrix
  Jan 2025 - Present
  - Moved the codebase to a single mono-repo (pnpm,Turborepo).
  - Migrated the mobile applications to React Native.
  - Introduced Role Based Access Control (KeyCloak and Oauth).
  - Implemented a strict linting setup, including CI/CD (ESLint, TypeScript, CSpell).
  - Overhaul and simplify the database schemas of existing products.
  - Implemented pull-request review protocols, and repository protection rules.
  - Migrated to Kubernettes based-deployment pipline.
  - Migrated from Slack to Microsoft Teams for communications.
  - Introduced Odoo to the organization.

- **Team Lead (Full-Stack)**
  WiMetrix
  Jun 2023 - Jan 2025
  - Developed Desktop applications with Electron
  - Implemented theming, internationalization, and dark-mode on the frontend.
  - Employed comprehensive unit-testing within the organization.
  - Migrated the backend applications to a microservices architecture.

- **Full-Stack Developer**
  WiMetrix
  Feb 2021 - Jun 2023
  - Migrated the entire codebase from JavaScript to TypeScript.
  - Migrated to GitHub Actions-based deployment pipeline.
  - Overhauled backend applications (TypeScript, Fastify, Swagger, Zod).
  - Overhauled frontend applications (TypeScript, Vite, React, CSR)

- **Full-Stack Developer / Project Manager**
  NestedLogics
  Dec 2017 - May 2018
  - Developed full-stack apps in native web technologies (jQuery, Node.js, Cheerio).
  - Developed desktop applications (admin portals and setup wizards) in Electron.
  - Created and Maintained database schemas in MySQL.
  - Created real-time chat and communications with Web Sockets.
  - Created SMS and email based notification pipeline.

- **Freelancer Developer & Designer**
  Freelancing
  May 2012 - Jan 2023
  - Created Brand Identities and brand design guides in CorelDraw.
  - Created print and electronics graphic designs in CorelDraw.
  - Created multiple Full-Stack web applications using native web technologies.
  - Designed static website and landing pages.

Languages

- TypeScript
- JavaScript
- HTML
- CSS
- SQL
- Bash

Libraries

- React
- React Native
- Node.js
- Fastify
- Express
- Astro
- Expo
- Jest
- Vitest
- Playwright
- Electron
- Material UI
- Zod

Databases

- MSSQL
- MySQL
- PostgresQL
- MongoDB
- SQLite
- Sequelize
- Prisma
- Mongoose
- Drizzle

Technologies

- Git
- KeyCloak
- Oauth
- GitHub Actions
- Docker
- Kubernettes
- Jenkins
- ApiSix
- NATS
- WebSockets
- Web RTC