Moteeb Asad

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Full-stack developer with 5+ years of experience in web development. The past two years mainly React, TypeScript and Next.js in production, with backend work in PostgreSQL, Supabase and Node.js/Express on my own products. Built SupplyFlow, a warehouse and supplier operations tool, end to end on my own: PostgreSQL schema and migrations, Row Level Security, SQL functions for every metric screen, a scheduled job that replaces a manual status update, Playwright tests and CI. I record architecture decisions in the repo so the next person knows why things are the way they are. Use Claude Code and GitHub Copilot daily, reviewing and testing everything before it ships. Have built REST and GraphQL integrations with third-party services, including Shopify, HubSpot and payment providers.

TECHNICAL SKILLS

Languages & Frontend: TypeScript, JavaScript (ES6+), React.js, Next.js (App Router, Server Actions), HTML5, CSS3

Backend & Database: PostgreSQL (SQL functions, triggers, transactions, row-level locks, pg_cron), Row Level Security, versioned SQL migrations, Supabase (Auth, PostgreSQL), Node.js, Express 5, Firebase

APIs & Data: REST APIs, GraphQL (Shopify Storefront API), third-party API and payment integrations, TanStack Query, Redux Toolkit, Zod, React Hook Form

Security: Role-based access control, session auth with httpOnly cookies, Argon2 password hashing, rate limiting

Testing & CI: Playwright (end-to-end, network interception, failure-path tests), Vitest, GitHub Actions CI (lint, type check, knip, build)

AI-assisted development: Claude Code daily with an AGENTS.md in the repo, GitHub Copilot; every diff reviewed and verified before merge

Styling & Workflow: Tailwind CSS, Shadcn UI, Chakra UI, Figma to code, Git, Agile / Scrum (Jira), architecture decision records

Platforms: Shopify Plus (Liquid, headless), HubSpot, WordPress

KEY PROJECTS

SupplyFlow – Warehouse & Supplier Operations Tool Jan 2026 to present

Built full-time between roles (Jan to May 2026); still developed since.

Stack: Next.js 16, React 19, TypeScript, Supabase (PostgreSQL, Auth), TanStack Query, Zod, Tailwind CSS | Source: github.com/moteeb-asad/supply-flow

- Built a warehouse and supplier operations app end to end: suppliers, purchase orders, goods receiving and stock, with a PostgreSQL schema managed through 51 versioned SQL migrations.
- Enforced three-role access with Row Level Security and server-side checks, and fixed a privilege escalation by moving roles from user-editable user_metadata to server-only app_metadata.
- Fixed RLS performance at 100k orders by rewriting 27 policies to run role checks once per query, verifying every role saw identical rows across 13 tables and views; screens went from 12.9 s and 9.3 s to 0.31 s and 0.05 s.
- Built goods receiving as one PostgreSQL transaction with row-level locks so concurrent receipts cannot double-count stock, and moved every metric screen into SQL functions that show "—" on error, never a fake zero.
- Added Playwright end-to-end tests for slow and failed requests, double clicks and invalid input, plus GitHub Actions CI (lint, type check, knip, build) on every pull request; built with Claude Code and every change reviewed before merge.

Lead Follow-up – Full-Stack Service (in progress) Oct 2026 to present

Service to reply to new business enquiries automatically and track every lead in one place. API, auth and admin dashboard built; message worker in progress.

Stack: Express 5, Node.js, TypeScript, PostgreSQL, Zod, Argon2, React, Vite, TanStack Query | Source: github.com/moteeb-asad/lead-followup

- Built an Express 5 and TypeScript API over PostgreSQL in an npm workspaces monorepo, using plain SQL and versioned migrations, with Zod validation and rate limiting on public endpoints.
- Implemented session authentication with httpOnly cookies and session ids hashed server-side in an application-owned sessions table, with passwords hashed using Argon2.
- Designed a transactional outbox with a FOR UPDATE SKIP LOCKED worker, and proposed LLM lead triage, both written up as decision records. Worker and triage not built yet.

check-repo-ready – Open-Source CLI on npm Nov 2026 to present

Stack: TypeScript, Node.js, commander, Octokit (GitHub API), Vitest, tsup | Source: github.com/moteeb-asad/repo-ready | npx check-repo-ready

- Built and published a read-only CLI that checks if a GitHub repo is ready to share, with 10 checks: branch protection, CI on pull requests, commit messages, direct pushes, .env files, leaked secrets and the README.
- Reads branch rules through the GitHub Rulesets API and scans git history locally; never prints a secret value and never changes the repo.
- Each check is one small module with its own Vitest tests; released as 0.1.0 through pull requests with CI and protected branches.

PROFESSIONAL EXPERIENCE

Frontend & CMS Developer, Ropstam Solutions Pvt. Ltd., Islamabad May 2026 to Oct 2026

Rejoined Ropstam (previously Feb 2023 to Mar 2024).

- Worked with Next.js and React on headless Shopify storefronts, consuming the Shopify Storefront API (GraphQL) for products, collections and cart.
- Integrated third-party Shopify apps and REST APIs to extend storefront functionality.
- Built and customised Shopify Plus themes with Liquid and Online Store 2.0 sections, including merchant-configurable sections on metafields.
- Improved storefront performance through lazy loading, asset optimisation and reducing render-blocking scripts.

Frontend Developer (React.js, TypeScript), Sideline Technologies Pvt. Ltd., Islamabad Nov 2024 to Dec 2025

- Worked in a team of developers on a role-based operations dashboard in React.js and TypeScript for running tennis clubs, with a modular architecture and API-driven data flows.
- Contributed to the layout patterns, routing and state flow across the dashboard modules, and implemented optimistic UI updates with React Query.
- Developed 20+ reusable React components and custom hooks to share logic and reduce duplicated code.
- Built JavaScript API integrations for CMS platforms (Duda, Shopify) in an Agile team using Jira.

Shopify Developer, DevStarX, Islamabad Jun 2024 to Aug 2024

- Built and maintained a Shopify Plus storefront for an early-stage startup's main client, with custom integrations to third-party services.

Frontend & CMS Developer, Ropstam Solutions Pvt. Ltd., Islamabad Feb 2023 to Mar 2024

- Led technical discussions with 10+ non-technical clients, turning business requirements into specifications and timelines, and mentored junior developers.
- Built API integrations in Shopify, custom modules in HubSpot and ACF-based features for WordPress.
- Turned Figma design systems into responsive, production-ready components.

Software Engineer, DatumSquare IT Services Pvt. Ltd., Islamabad Feb 2020 to Sep 2022

- Built client websites and UI features with React.js, and integrated REST APIs and third-party services for e-commerce, payments and analytics.
- Delivered HubSpot, WordPress and Shopify sites from requirements to deployment.

Frontend Developer (Part-time), Freelance, Remote Aug 2019 to Nov 2024

- Frontend projects for international clients, part-time alongside and between full-time roles.

Earlier roles 2015 to 2020

- Frontend Developer, Cyber Peak Solutions (2019 to 2020); Web Developer, Market Development Solutions (2017 to 2018); Web Development Intern, WarmTech Solutions (2015 to 2016). WordPress and Shopify templates and client site maintenance.

EDUCATION

Bachelor of Science in Computer Science, Iqra University, Islamabad Sep 2011 to Jul 2015

Intermediate in Computer Science, Rawalpindi College of Commerce, Rawalpindi Aug 2009 to Jul 2011