

HAMMAD AHMED

Senior Full-Stack Developer

+92 333 272 1215 • hamahmed95@gmail.com • linkedin.com/in/hammad23 • github.com/madbat95

Karachi, Pakistan • Open to Remote / Global Roles

PROFESSIONAL SUMMARY

Full-stack developer with 5+ years of hands-on software development experience (6+ years in tech overall, including BI/ETL and low-code platform delivery) building enterprise-grade applications using Angular, Next.js, NestJS, and Django. Proven track record leading client-facing discovery and requirements sessions, delivering scalable architectures, and integrating complex third-party APIs. Experienced in both product ownership and hands-on engineering across the full development lifecycle. Proficient in AI-assisted development workflows (Claude, GitHub Copilot), enabling faster delivery and consistent code quality.

TECHNICAL SKILLS

- **Frontend:** Angular, Next.js (v16), React 19, TypeScript, Tailwind CSS v4, Ant Design, Bootstrap, Material Design, SCSS
- **Backend:** NestJS, Django REST Framework, TypeORM, Node.js, PostgreSQL, SQL Server, BigQuery
- **State & Data:** TanStack Query, RxJS, Zustand, Redux Toolkit, WebSockets
- **Cloud & Integrations:** AWS S3, Azure Blob Storage, Stripe, PayPal, NMI, SendGrid, Google APIs, Microsoft Graph, Mux, Vercel, Railway
- **Testing & Docs:** Jest, Vitest, Compodoc, Postman
- **Tools:** Git, Jira, Docker, GitHub Actions (CI/CD), PowerBI, Qlik, Chart.js, Recharts, Framer Motion, Zod, Radix UI
- **Languages:** TypeScript, JavaScript, Python, Java
- **AI-Assisted Dev:** Claude (Anthropic), GitHub Copilot — accelerated full-stack delivery, code review, and architectural planning; used a sub-agentic workflow on select projects, splitting frontend and backend work across parallel AI agents against a shared API contract to eliminate integration drift.

EXPERIENCE

Senior Software Engineer — Full-Stack Developer & Product Owner | Shispare | Aug 2025 - Present

Project: Nebula Academy — AI-Powered Learning Management System

- Led all client-facing meetings including requirements gathering, sprint planning, and backlog prioritization as Product Owner throughout the full product lifecycle.
- Directed a 3-person delivery team (1 associate engineer, 1 intern, 1 QA) as the primary technical decision-maker, owning code reviews and sprint execution.
- Built complete LMS frontend using Next.js 16, React 19, TypeScript, and Tailwind CSS v4 with multi-role dashboards (learners, instructors, coaches, admins, superadmins), enforced via permission-aware route guards and role utilities.
- Diagnosed redundant per-component API calls causing slow dashboard loads; introduced Redux Toolkit for centralized state management, cutting duplicate network requests and reducing average load time by an estimated 30-40%.
- Developed admin analytics dashboards with organization-filtered statistics, course rankings, learner/instructor activity metrics, and case management reporting.
- Created assessment and exam workflows including submission dialogs, result screens, and scheduling flows; integrated Stripe Checkout via Next.js API routes with payment-aware event registration.
- Built and maintained NestJS + TypeORM + PostgreSQL backend with JWT and Passport authentication and role-based access control across users, roles, and permissions modules.
- Integrated Google Meet and Microsoft Teams APIs for meeting/webinar lifecycle management, and Mux for adaptive-bitrate video streaming, eliminating the buffering and playback lag present in the prior video pipeline.
- Connected AWS S3, Azure Blob Storage, SendGrid, and Microsoft Graph; designed TypeORM migrations, seeding scripts, and environment utilities.
- Set up CI/CD pipelines with GitHub Actions and used Docker to containerize databases for consistent environments across the team; deployed services via Vercel and Railway.
- Leveraged Claude and GitHub Copilot throughout development to accelerate delivery, enforce code quality, and expand technology coverage.

Software Engineer | BitByteCyber | Jan 2023 - Aug 2025

- Built enterprise-grade Angular applications with fully lazy-loaded modules, auth and permission-based route guards, and interceptors for centralized token handling and error display.
- Engineered complex dynamic forms using Angular Reactive Forms and Formly including multi-step steppers, FormArrays, and API integration; built a form builder module allowing event creators to define custom fields auto-rendered per ticket type.

- ▶ Integrated WebSockets for real-time chat and notifications; implemented CASL-based RBAC for granular access control across modules and UI elements.
- ▶ Integrated payment gateways (Stripe, NMI, PayPal) directly from the Angular frontend; built real-time Chart.js dashboards and a custom FullCalendar module with multi-day event views.
- ▶ Generated downloadable CSV and PDF reports; built Chrome browser extensions and automated business workflows using Zoho Deluge scripting.
- ▶ Translated Figma designs into pixel-perfect UIs using SCSS, Ant Design, and TailwindCSS; supported live production projects with QA and clients to ensure minimal downtime.

Application Consultant / Software Engineer | Makeen.io | Jul 2020 - Dec 2022

- ▶ Implemented Makeen Transform, a drag-and-drop form builder product that digitizes company paperwork into structured digital forms, across 6 client deployments.
- ▶ Built custom connectors and lightweight scripting to fetch and map client data into form workflows; served as the sole point of contact for client meetings and requirements gathering across all 6 engagements.
- ▶ Managed project scope and task tracking via Jira, coordinating directly with client stakeholders from discovery through go-live.

Business Intelligence Consultant | Blutech Consulting | Dec 2019 - Jun 2020

- ▶ Built ETL pipelines and automated Power BI/SSRS regulatory reporting for HBL, one of Pakistan's largest banks, processing millions of rows of transactional data.
- ▶ Designed and deployed REST APIs with Django REST Framework and used OpenCV to automate NIC card data extraction for client onboarding workflows.

KEY PROJECTS

- ▶ Nebula Academy – AI-powered enterprise LMS (Next.js, NestJS, PostgreSQL); built full-stack as lead developer and served as Product Owner for all client-facing stages.
- ▶ FMCSA – Migrated legacy system to Angular-based CRM for the US trucking industry; platform serves thousands of customers and handles tens of thousands of weekly visits.
- ▶ BOIFiling – Complex role-based CRM portal for US company BOI filing compliance.
- ▶ Event Hippie – Ticket purchasing platform with Stripe and Twilio integrations and highly dynamic form generation.
- ▶ Trophy Hunter – Hunting season event portal featuring notifications, real-time chat, and event management.
- ▶ Arbitration – Conflict resolution product managing witnesses, claimants, respondents, and evidence workflows.

PERSONAL PROJECTS

Real-Time Collaborative Whiteboard — Next.js, NestJS, Socket.io, PostgreSQL, Redis

- ▶ Built a full-stack real-time whiteboard supporting multiplayer drawing, live cursor tracking, and presence across concurrent users, using a NestJS + Socket.io WebSocket gateway with server-authoritative event sequencing and automatic client resync.
- ▶ Built a Redis-backed presence and pub/sub layer for horizontal scaling across backend instances; defined a single shared TypeScript contract for events, payloads, and routes so two AI agents could build the client and server in parallel with zero interface drift, then deployed a 4-service production stack (Vercel, Railway, Supabase, Upstash).

Nearby Business Finder — TypeScript, NestJS, Next.js, n8n

- ▶ Built a full-stack geospatial search app (NestJS backend, Next.js/Leaflet frontend) in a TypeScript monorepo, with a cached proxy layer for the Nominatim and Overpass APIs to eliminate CORS issues and redundant calls to rate-limited services.
- ▶ Extended the pipeline to enrich results with contact emails and business descriptions plus a CSV export endpoint, and built an automated n8n cold-outreach pipeline with lead deduplication, send throttling, and CAN-SPAM/GDPR-compliant opt-out handling.

Chef Homd — AI Recipe Generator (React, Vite, Hugging Face LLM API)

- ▶ Revived and shipped a full-stack AI recipe app, fixing a broken third-party API integration and designing a structured request/response protocol to reliably parse unstructured LLM output; identified and remediated a prompt injection vulnerability with layered client- and server-side defenses.

Personal Portfolio Site — Next.js 16, TypeScript, Tailwind CSS v4

- ▶ Designed and shipped an end-to-end portfolio site with light/dark theming and a custom design system, deployed on Vercel with GitHub-based CI/CD.

EDUCATION

BS in Computer Science — Institute of Business Administration (IBA), Karachi | 2014 - 2018