Syed Muhammad Murtaza Hussain

Lead Software Engineer · Full-Stack (React / Next.js · NestJS · React Native / Flutter)

Karachi, Pakistan | +92 311 8328159 | syedmurtaza108@gmail.com

Portfolio | LinkedIn | GitHub | Medium

PROFILE

Full-stack engineer with 6+ years of experience shipping production software across the stack: React / Next.js web apps, NestJS + PostgreSQL backends, and React Native / Flutter mobile apps, deployed on AWS. Currently lead a team of 6 engineers and 1 QA on a US home-services booking and billing platform with 1M+ users and 100K+ bookings a month, owning the architecture end-to-end from database schema and payment flows to admin and customer-facing UIs, and working with the client on daily calls. Known for clean, maintainable architecture, a strong testing and CI/CD culture, and calm, evidence-driven debugging of production issues.

CORE SKILLS

Frontend	React, Next.js, TypeScript, React Query, Zustand, React Router, Ant Design, Tailwind CSS, Vite
Backend	Node.js, NestJS, REST API design & Swagger, Prisma, PostgreSQL, SQL Server, BullMQ / Redis queues, Socket.IO, cron & background jobs, .NET
Mobile	Flutter / Dart, React Native (Expo), Kotlin native integrations & platform channels
Integrations	Braintree, Stripe, Twilio SMS, AWS SES, Braze, Mixpanel, TaxJar, Firebase
Cloud & DevOps	AWS (EC2, Elastic Beanstalk, S3, Lambda, RDS), GCP / Firebase, Docker, GitHub Actions CI/CD, load balancing
Quality	Jest, unit / widget / integration testing, code review, production incident investigation

EMPLOYMENT HISTORY

Lead Software Engineer, Koderlabs | Karachi | Nov 2020 — Present

Promoted three times in five years: Associate Software Engineer (2020), Software Engineer (2021), Senior Software Engineer (2023), Lead Software Engineer (2025 — Present).

Spruce · Lead engineer for a US home-services booking platform for apartment communities · 1M+ users, 100K+ bookings a month

- **Lead a team of 6 engineers and 1 QA** with a product-first mindset: scoping work pragmatically, reviewing code, shipping iteratively and improving quality as evidence comes in from real users. Own the platform's architecture decisions, join daily calls with the client, and conduct technical interviews for hiring.
- **Own the core platform backend:** NestJS + Prisma / PostgreSQL service handling bookings, recurring schedules, pricing, coupons and subscriptions, with BullMQ / Redis background jobs, Socket.IO real-time updates, and billing crons that charge invoices ahead of service.
- **Built payment and messaging integrations:** Braintree and Stripe card and wallet payments (Apple Pay / Google Pay), refunds and credit ledgers; Twilio SMS, AWS SES email, Braze and Mixpanel event pipelines, and TaxJar tax calculation.
- **Built and maintain the web portals:** React + TypeScript admin, property-manager and service-provider portals (React Query, Zustand, Ant Design, Tailwind) and Next.js frontends, consuming the NestJS REST APIs end-to-end.
- **Shipped production mobile apps:** React Native (Expo) resident and pro apps with over-the-air releases, plus multiple Flutter applications serving thousands of users across iOS, Android and web, including native Kotlin integrations.
- **Led a phased legacy migration:** moved a 27-market legacy platform onto the new stack market by market, building a validation toolkit to reconcile bookings, billing and provider data and to catch double-charge and data-drift issues before cutover.
- **Production reliability:** investigate and fix live incidents across billing, scheduling and notifications using per-booking audit logs; built an automated 5xx crash-triage pipeline that fingerprints server errors and queues them for resolution.
- **CI/CD and testing:** designed GitHub Actions pipelines (typecheck, build, AWS Elastic Beanstalk deploys) that cut deployment time from hours to minutes; drove unit, widget and integration testing, raising coverage to 70%.

Other projects at Koderlabs

- **My Cheval** (Lead engineer): horse-management app with health records, reminders, expense tracking and ride tracking, used by riders in 10+ countries.
- **Hip2Save** (Mobile app lead): mobile app for a US deals and coupons platform.
- **DaVinci** (Mobile app lead): mobile app for a consumer vaporizer brand selling in the US, Canada and Europe.
- **Essancy** (Mobile app developer): mobile app for a UAE home-fragrance and smart-diffuser brand.

Part-Time Developer, Freelance | Jan 2019 — Nov 2020

- Designed and built a .NET back-end system for a school management platform, including student data management, attendance tracking, and reporting — delivering a reliable, scalable product tailored to stakeholder needs.
- Managed SQL Server databases and ensured seamless front-end/back-end integration, working closely with non-technical stakeholders to translate requirements into working software.

OPEN-SOURCE CONTRIBUTIONS

Chucker Flutter | Published on pub.dev
Built and published Chucker Flutter, an open-source network debugging package for the Flutter ecosystem. Captures and visualizes HTTP requests, responses, and errors in real time — used by Flutter developers to inspect network traffic during development. Achieved **92% code coverage** through extensive unit testing.

GitHub: https://github.com/syedmurtaza108/chucker-flutter

EDUCATION

Masters in Artificial Intelligence, NED University | Aug 2023 — 2025 (completed)
Karachi

Focused on machine learning, deep learning, NLP, and computer vision. Practical skills in designing AI-driven features, model optimization, and judging where LLMs and ML genuinely add user value — and where they don't.

Bachelors in Computer Science, University of Karachi | Jan 2017 — Jan 2021
Karachi

Solid foundation in algorithms, data structures, software development, databases, networking, and systems.

CERTIFICATIONS

AWS Cloud Technical Essentials — Coursera, 2021 (verify)

Modern Application Development with Node.js on AWS — Coursera, 2021 (verify)

LANGUAGES

Urdu — Native | **English** — Professional working proficiency