

Muhammad Akbar

SENIOR FULL-STACK ENGINEER

+92-3366194715 • makbar89@gmail.com

www.linkedin.com/in/muhammad-akbar

SUMMARY

Senior full-stack engineer. Production software since 2019 across SaaS, HRTech, eCommerce, and executive coaching. I build websites, web apps, internal tools, AI integrations, and full SaaS platforms end-to-end. Next.js, React, Vue, and Rails on the surface; PostgreSQL, Firebase, and AWS on the inside. Currently lead engineer on a multi-tenant coaching platform with AI meeting summaries; previously solution architect and team lead on an enterprise ITSM platform. I think in systems, ship what I can defend, and integrate AI where it earns its place.

TECH STACK SNAPSHOT

- **Languages:** TypeScript, JavaScript, Ruby, SQL, HTML, SCSS
 - **Frameworks:** Next.js, React, Vue, Ruby on Rails
 - **AI & Integrations:** OpenAI, Anthropic Claude, LLM workflows, Vector search, Function calling
 - **Databases:** PostgreSQL, Firebase, MongoDB, DynamoDB
 - **Cloud:** Vercel, AWS (EC2, Lambda, Cognito, S3, RDS, SES, SQS, CloudWatch)
 - **Async & Queues:** Sidekiq, Redis, SQS, WebSockets
 - **Payments & APIs:** Stripe, REST, GraphQL, Webhooks
 - **Tools:** Docker, Git, Cursor, Bugsnag, Jira, Figma
 - **Testing:** RSpec, Playwright, Vitest, TestCafe
 - **UI:** TailwindCSS, shadcn/ui, Framer Motion, MUI, Bootstrap
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WORK EXPERIENCE

Aug 2019 - Nov 2025

CodingCops - Senior Software Engineer

- Designed and shipped production software for client SaaS projects across Ruby on Rails, Vue, React, Next.js, and AWS.
 - Spearheaded production incident response with Bugsnag and CloudWatch: materially reduced downtime across multiple platforms.
 - Architected reusable component libraries and modern state-management patterns that became team defaults.
 - Mentored junior engineers and owned code-review standards across client engagements.
 - Drove technical architecture decisions and roadmap conversations across multi-client engagements.
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SELECTED PROJECTS

KS Insight: Coaching, CRM & Operations Platform

2025 - Present

Lead Engineer | Full-Stack

- Built the entire admin platform end-to-end — CRM, project & phase management, time tracking, 360 assessments, and coaching booking flows.
 - Designed the multi-tenant data architecture — per-client Firestore isolation, role-based access, and per-org admin provisioning.
 - Built the AI meeting-summary pipeline — Zoom transcript ingest, LLM summarization, and automated task extraction.
 - Built the executive feedback engine — collects ratings from an exec's peers, managers, and direct reports across an 87-question instrument, and aggregates them into coaching reports.
 - Architected the email and scheduler infrastructure — admin-editable templates with variable resolution, cron-style job dispatch, and automated reminder workflows.
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Genuity: IT Service and Asset Management

2022 - 2024

Full-Stack Developer | Solution Architect | Team Lead

- Owned every core module end-to-end: Helpdesk ticketing, Asset management, and Contract management across Vue frontend and Rails backend.
 - Designed REST API contracts between Vue and Rails across reporting, assets, tickets, and contracts.
 - Architected the reporting and async layers: query indexing, materialized views, and Sidekiq-backed refresh pipelines.
 - Owned production reliability: Bugsnag, CloudWatch, incident response, and materially reduced downtime.
 - Led production deployment and CI on Docker + AWS EC2 with RSpec test pipelines.
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SaplingHR: Human Resources Automation Platform

2021 - 2022

Full-Stack Developer

- Built onboarding, employee profile, and workflow modules in React and Rails for large-scale user teams.
 - Optimized REST APIs and PostgreSQL queries with indexing and refactors for measurably faster page loads.
 - Upgraded legacy Rails components and modernized the data layer to support new feature work.
 - Refactored business logic into shared service modules to reduce duplication across HR workflows.
 - Tightened test coverage and stabilized critical paths across the HR workflow modules.
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Swell Rewards: Loyalty & Rewards Management Platform

2019 - 2021

Shopify Frontend Developer

- Built pixel-perfect, responsive storefront and dashboard interfaces in HTML, CSS, JavaScript, and Liquid.
 - Developed reusable UI components that materially reduced implementation time for new merchant pages.
 - Implemented Liquid templates and storefront widgets that surfaced loyalty UI inside merchant Shopify stores.
 - Collaborated with designers and client teams on rapid UX iterations and Shopify integration polish.
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ADDITIONAL ENGAGEMENTS

- **HELM Boots (2023 - 2024)** — Custom Shopify storefront and branded loyalty program (HELM Crew) for an Austin-based premium boot maker.
 - **Lokai (2023 - 2024)** — Custom Shopify storefront for an inspirational bracelet brand. Built the Cause Collection and Balance Club subscription powering \$10M+ in charity donations.
 - **NTRL Look (2022 - 2023)** — Custom WordPress theme for a beauty editorial platform with category-driven discovery and affiliate monetization.
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EDUCATION

Bachelor of Science in Computer Science

COMSATS UNIVERSITY ISLAMABAD, Lahore Campus
