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SUMMARY

Results-driven Senior Fullstack Developer with 4 years of experience architecting and delivering high-performance applications across MERN, MEVN, and ASP.NET Core stacks. Proven track record leading development teams, optimizing systems at scale, and shipping production-grade platforms serving tens of thousands of users. Experienced in real-time systems, cloud infrastructure and CI/CD (AWS EC2/S3, CodePipeline, CodeDeploy, NGINX, Cloudflare, Docker), SaaS architecture, and modern frontend frameworks — with a strong focus on clean, scalable, maintainable code.

SKILLS

Languages: JavaScript, TypeScript, C#, HTML5, CSS3, SCSS, Dart

Frontend: React.js, Next.js, Vue.js, Angular, React Native (Expo), Flutter, Redux Toolkit, Zustand, React Query, TailwindCSS, Material UI, Mantine UI, Quasar Framework

Backend: Node.js, Express.js, NestJS, ASP.NET Core, Socket.IO, JWT, Passport.js, Prisma ORM, Mongoose, Dapper

Databases: MongoDB, PostgreSQL, MySQL, SQL Server, Neo4j (Basic)

Cloud & DevOps: AWS (EC2, S3, SSM, CodePipeline, CodeDeploy), NGINX, Cloudflare, Docker, CI/CD

Tools & Platforms: GitHub, JIRA, Playwright, Stripe, Cloudinary, RevenueCat, Coinify, VS Code, WebStorm

EXPERIENCE

Senior Software Engineer

Sep 2025 – Present

Wanile Technologies

Lahore, Pakistan

- Lead developer and team lead across multiple full-stack SaaS products, managing **4-5 member engineering teams** through architecture design, sprint planning, code reviews, and production delivery
- Architected and shipped three production platforms: a Translation CMS, an Arabic content publishing platform (**10K+ MAU**), and a multi-tenant Property Management SaaS
- Worked across NestJS, Next.js, MongoDB, Stripe, Socket.IO, AWS S3, CASL, and Playwright to deliver scalable, real-time, role-based systems

Senior Software Engineer

Jun 2023 – Present

BarqBytes

Lahore, Pakistan

- Delivered high-impact features across 6+ client projects spanning e-commerce, real estate, certification platforms, home renovation, and mobile applications
- Built platforms serving **60,000+ users**, handled **15M+ record** data pipelines, and led frontend and backend work across React.js, Next.js, Node.js, NestJS, and ASP.NET Core stacks
- Consistently owned end-to-end delivery: from system design and API architecture to UI implementation, performance optimization, and production deployment

PROJECTS

Kaunti — Translation Order Management CMS | Wanile Technologies

NestJS, Next.js, MongoDB, Stripe, Socket.IO, AWS S3, Playwright, TypeScript, TailwindCSS, Mantine UI

- Led a 4-member team in architecting and delivering a full-stack CMS for translation order management, overseeing task delegation, code reviews, and release timelines
- Designed a multi-tenant domain system with role-based access control (Admin, Manager, Client) and domain-isolated data, branding, and pricing using NestJS custom decorators and guards
- Built a complete order lifecycle system with real-time status updates, revision and copy/edit workflows, and a team chat system via Socket.IO WebSockets
- Integrated Stripe payment processing including webhooks, pay-on-behalf for admin-created orders, and an automated refund engine that recalculates refunds when edited order totals fall below the original payment

- Engineered a certificate & invoice PDF pipeline using Playwright and Ghostscript, achieving **75–85% performance improvement (12s → 2–3s)** via browser pooling, in-memory PDF caching, and Cloudinary image optimization
- Architected two separate Next.js apps (admin CRM + public ordering portal) with React Query, Zustand, and Zod — with full mobile/iOS compatibility and 4 public-facing branded domain storefronts

Kitabh — Arabic Content & Social Platform | Wanile Technologies

Next.js 15, Redux Toolkit, RTK Query, MongoDB, NextAuth v5, Tiptap v3, AWS (EC2, S3, SSM, CodePipeline, CodeDeploy), NGINX, Cloudflare, RevenueCat, TypeScript

- Led end-to-end development of an Arabic content publishing platform with **10,000+ monthly active users** and **1,000+ paid subscribers** generating recurring revenue through tiered subscription plans
- Designed a Business Portal enabling accounts to manage newsletters, subscriber lists, and brand identity — with a visual site designer and custom subdomain routing for branded publisher pages
- Built a feature-rich article editor using Tiptap v3 (Pro) with RTL Arabic support, DOCX import/export, and AWS S3 media uploads via presigned URLs
- Implemented Kitabh Rafique — an AI writing suite (Article Outline Generator, Quality Checker, Carousel Slide Generator) powered by Google Gemini 2.0 Flash, boosting author content output
- Owned the AWS production infrastructure: deployed on **EC2 behind NGINX** with a **CodePipeline + CodeDeploy** CI/CD pipeline, AWS SSM for instance management and configuration, and **Cloudflare** for DNS, SSL, and edge caching of static assets and pages — reducing origin load and improving global response times
- Led the App Store launch of the Kitabh iOS app, now accounting for **20% of total platform traffic**, with RevenueCat for in-app subscription management

CayManage — Property & Tenant Management SaaS | Wanile Technologies

NestJS, TypeScript, MongoDB, CASL, Passport.js, Socket.IO, AWS S3

- Led a 5-member team through sprint planning, task distribution, code reviews, and delivery for a production-grade multi-tenant SaaS platform
- Architected a 4-tier organizational hierarchy (HQ Admin → Org Admin → Property Manager → Tenant) with a CASL-based RBAC system using custom guards, decorators, and module-level permissions
- Designed and delivered 20+ feature modules including property & unit management, tenant lifecycle, lease tracking, payment & ledger management, and a maintenance request system with real-time chat
- Integrated multi-strategy authentication (JWT cookie-based multi-subdomain, Google OAuth2, invitation flows), AWS S3 file storage, and SMTP transactional email
- Built real-time notifications via Socket.IO and SSE, plus automated schedulers for rent reminders and lease expiry alerts

CompTIA — Student Lab, Continuing Education & Certification Renewal | BarqBytes

React.js, Material UI, SCSS, Zustand, ASP.NET Core, SQL Server, Dapper, Neo4j, Playwright

- Architected and delivered the Certification Renewal System — a complete platform redesign using React.js, Material UI, and SCSS, significantly improving candidate UX for certification renewals
- Engineered a token-based Wallet enabling candidates to use earned CEU tokens to renew certifications, with an intelligent auto-renewal engine that cascades renewal of all lower-level certifications when a higher-level cert is renewed — maximizing token efficiency
- Built a fraud detection monitoring service on the comptia.org backend that periodically scans BlueUmbrella platform orders pending for more than 5 hours, generating in-depth alerts for admins and e-commerce managers to handle flagged orders manually
- Led the frontend redesign of the student lab system with React.js across 8 labs; developed a Playwright automation testing framework in ASP.NET Core, significantly enhancing platform reliability and data accuracy
- Engineered a PDF certification generation pipeline and integrated an email management system into the CompTIA Core library for ASP.NET Core

Renuity — Home Renovation Platform (US) | BarqBytes

Next.js, Zustand, React Query, Node.js, Monorepo Architecture

- Built the Online Scheduler Next.js app used by **60,000+ users** across Renuity's divisions to book home renovation appointments
- Developed the Repeat Customer app in Next.js using a modern monorepo architecture with shared code across multiple apps, enabling the marketing team to capture and re-engage past customers
- Enhanced the Lead Perfection platform across multiple Renuity divisions; optimized stored procedures for the lead scoring system to correctly ingest and score leads from multiple sources

Remax — Real Estate Platform | BarqBytes

Node.js, React.js, Next.js, MongoDB, TailwindCSS

- Built a sitemap generator from scratch capable of handling **15M+ records** using Node.js, resolving out-of-memory issues and improving the company's search engine ranking
- Optimized critical backend APIs with significant performance bottlenecks, reducing processing time and improving overall system efficiency
- Developed Ad Management components and the Global Listing Manager platform with a dynamic JSON-driven form generator

Shoowme — Live-Streaming E-Commerce Platform | BarqBytes

React.js, Zustand, Node.js, Express.js, MongoDB, Socket.IO, Docker, Ninja Van API, AWS S3

- Architected a live-streaming e-commerce platform where sellers broadcast products in real time and buyers make instant in-session purchases — combining live video, product catalog, and checkout in a single flow
- Built a real-time bidding and flash-sale mechanism using Socket.IO, handling concurrent viewer interactions and purchase events without race conditions
- Integrated Ninja Van API for end-to-end logistics including real-time shipment tracking, automated label generation, and delivery status webhooks; used AWS S3 for scalable media storage
- Designed a multi-role admin dashboard (shop management, payment reconciliation, analytics) and a seller dashboard for inventory, live session scheduling, and payment withdrawals
- Containerized the full application with Docker for consistent staging and production environments

Impactify — Crypto Donation Widget for NGOs | BarqBytes

Vue.js, Quasar Framework, TailwindCSS, NestJS, MySQL, Prisma ORM, Coinify

- Engineered a white-label embeddable crypto donation widget for NGOs, supporting secure and anonymous donations via QR code across multiple cryptocurrencies
- Integrated Coinify for real-time crypto payment processing and webhook-driven payment confirmation, ensuring reliable donation tracking despite blockchain confirmation delays
- Implemented a domain whitelisting approval system preventing unauthorized widget embedding, and built a multi-tenant NestJS/Prisma architecture giving each NGO isolated branding, wallet configs, and donation history
- Built a comprehensive admin panel for managing organizations, donation analytics, transaction tracking, and domain whitelist approvals

Taxi Management — Local-First Driver Log System | BarqBytes

React Native, Expo, WatermelonDB, Zustand, NestJS, MongoDB, JWT

- Built a cross-platform mobile app for German taxi drivers to digitally manage shifts, ride logs, earnings, and daily summaries — replacing paper-based workflows
- Implemented a Local-First architecture using WatermelonDB (SQLite-backed) enabling full offline functionality with automatic background sync to remote MongoDB once connectivity is restored
- Built conflict resolution logic for the sync engine to handle data divergence during extended offline periods, ensuring integrity without data loss
- Developed a NestJS REST API with JWT authentication for driver identity management, shift sync endpoints, and an admin panel for fleet-level activity reporting

OPEN-SOURCE & MOBILE PROJECTS

Selected public repositories — full list at github.com/mdzaid8920

- **Rise Real Estate App (Flutter/Dart)** — Real estate mobile app UI with property listings, detail views, and search flows: github.com/mdzaid8920/Rise-Real-Estate-App
- **Cosuisson (Flutter/Dart)** — E-commerce mobile app UI including complete admin screens for catalog and order management: github.com/mdzaid8920/Cosuisson
- **Car Rental REST API (Node.js, Express, MongoDB)** — Backend REST API covering bookings, authentication, and fleet management: github.com/mdzaid8920/carRental
- **Food App UI (Flutter/Dart)** — Food ordering mobile app interface: github.com/mdzaid8920/Food-App-UI

EDUCATION

GCS - Affiliated with the University of Punjab

Bachelor of Information Technology (BSIT)