

SAAD BIN YOUNAS

Automation Engineer · Full-Stack Engineer

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PROFESSIONAL SUMMARY

Software engineer working across automation engineering, full-stack development, and mobile — comfortable owning a system end-to-end, from database architecture and design documentation through production code, deployment, and team review. Track record of shipping across no-code/low-code platforms, TypeScript/Python web stacks, React Native, and AI integrations (voice, vision, generative). Equally at home writing the migration proposal, leading a small delivery team on GitHub, and delivering the production code behind it.

EXPERIENCE

Automation Engineer & Full-Stack Lead

Aug 2025 – Present

Automaxion LLC · Full-Time, On-Site

Lahore, PK

- Own the full delivery lifecycle across concurrent client engagements — scoping, system design, architecture, full-stack implementation, deployment, and handover.
- Maintain and extend mature no-code/low-code platforms (Airtable, N8N, Make.com, Google Apps Script) for clients in production while concurrently delivering full-stack rebuilds in React, NestJS, TypeScript, Python, and PostgreSQL.
- Lead a small delivery team via GitHub — issue assignment, branch and pull-request review, and cross-service coordination across frontend, backend, and automation tracks.
- Integrate voice and vision AI technologies (Retell AI, Google Vision/Video Intelligence API, generative models) into client-facing products and workflows.
- Produce end-to-end technical documentation — architecture diagrams, ER and state diagrams, user stories, and formal migration proposals — guiding clients from no-code platforms to bespoke full-stack solutions.

Junior Software Developer

Aug 2024 – Jan 2025

RTC League · React Native, Java (Android), Google Tacotron 2

Lahore, PK

- Integrated Google's Tacotron 2 text-to-speech model into the Alexander AI Voice module, enabling natural-language voice output within the mobile application.
- Delivered module-based features across React Native (JavaScript) and native Android (Java) codebases, maintaining consistent cross-platform behaviour and participating in code reviews.

Associate Web Developer

Jun 2023 – Sep 2023

PacsLink Corporation · PHP Laravel, Java, Oracle

Lahore, PK

- Contributed to a desktop application for Lahore General Hospital built in Java with Oracle database integration, implementing data management and reporting modules.
- Developed web application features for Chughtai Labs using PHP Laravel — backend logic, database-driven views, and REST endpoints.

EDUCATION

FAST-NUCES

Lahore, PK

Bachelor of Science in Software Engineering

2021 – 2025

Pak Turk Maarif International Colleges

Lahore, PK

FSc. Pre-Engineering

2019 – 2021

PROJECTS

Sidago CRM — Multi-Brand White-Label Platform (Full-Stack Rebuild)

2025 – Present

React · NestJS · PostgreSQL · Supabase · Drizzle ORM · TypeScript · JWT/RBAC · HMAC Webhooks

- Operational backbone for a multi-brand outbound telesales firm targeting U.S. small-cap public companies (NASDAQ / NYSE / OTC / TSX, market cap under \$200M) — ~40K leads across 3 sales brands, feeding the parent firm's investment and financing engagements.
- Architect and full-stack lead for the production rebuild; designed a normalized PostgreSQL schema with a white-label organization → brand → sub-brand hierarchy, trigger-based audit logging, and a full RBAC layer over JWT with refresh rotation, shipped across 31 ordered Drizzle migrations.

- Built the backend as a multi-service NestJS monorepo — write-authority API, cron- and event-driven automations service, and a shared schema package — communicating over HMAC-signed webhooks with constant-time verification.
- Delivered the React + Vite frontend with role-scoped navigation (Agent / Admin / Backoffice) and a TanStack Query data layer over the backend's REST surface.
- Lead the delivery team on GitHub (branch/PR review, cross-service coordination) and own deployment — Vercel preview today; production rollout on self-managed servers and an operator-facing error-log and system-health dashboard on the near-term roadmap.

Sidago CRM — Airtable Platform (Predecessor, Owned & Maintained) 2025 (through migration cutover)
Airtable · Airtable Scripts (JavaScript) · N8N (self-hosted) · Mighty Caller · Numverify · NeverBounce · Airtable REST API

- Predecessor production CRM running the same multi-brand telesales business — a 16-table, 489-field Airtable base spanning 3 sales brands and ~40K leads, operating the client's full sales floor (agents, dialing, validation, leaderboards, fixer workflows) until the full-stack migration.
- Sole developer and maintainer; owned the data model, automation suite, agent interfaces, and external integrations end-to-end.
- Engineered and maintained 40+ Airtable automations in custom JavaScript — lead assignment, call-result handling, hot-lead lifecycle, fixer and validation workflows, leaderboard scoring, and nightly manual-update sync.
- Integrated Mighty Caller VoIP (auto-dialing with automated daily JWT token refresh), Numverify, and NeverBounce for real-time dialing and lead-data validation across the agent workflow.
- Deployed a self-hosted N8N instance to offload staged processing via the Airtable REST API, sustaining automation volume beyond platform-native limits and informing the architecture of the eventual rebuild.

ShiftGrit — AI Medical Booking Automation Platform 2025 – 2026
Make.com · Retell AI · Jane · Freshdesk · Missive · Textline · Google Sheets · GAS

- Designed and built a fully automated booking and patient communication system for a medical/therapy firm, replacing manual receptionist workflows end-to-end.
- Retell AI voice agent handles inbound patient booking calls — verifying doctor availability in Jane in real time, enforcing therapist-configured capacity limits, and confirming or rerouting accordingly.
- Make.com orchestrates the post-call pipeline (Freshdesk ticket, Jane confirmation email, Textline SMS reminder, Missive routing); extended with GAS for conditional business logic beyond native platform capabilities.

BrandLift AI — AI-Driven Brand Content Generator 2026
Python · React · Google Vision API · Google Video Intelligence API · Imagen 3 · Veo · Google Analytics

- Built a full-stack AI platform that generates branded social media ad content from a user-submitted URL — scraping product data, colour palettes, typography, and brand tone from the site's DOM.
- Used Google Vision API for product image analysis and Video Intelligence API for scene-level metadata extraction; generates moodboards, ad posts, and short-form videos via Imagen 3 and Veo.
- Deployed Python backend as serverless functions on Vercel; integrated Google Analytics for SEO and funnel tracking.

POV AI Restaurant — Inbound Voice Agent 2025
React · TypeScript · Tailwind CSS · Retell AI · N8N · Vite

- Built a concept AI platform where Retell AI handles complete inbound food ordering and table reservation calls with no human involvement; owner dashboard allows real-time menu, pricing, and seating updates.
- N8N orchestrates webhook-driven data handoff between Retell AI call events and the frontend, routing order and reservation data without a custom backend.

EasyRozee — Affiliate Marketing Mobile Platform (FYP) Sep 2024 – May 2025
React Native · Expo · TypeScript · Firebase

- Designed and developed a full-featured mobile application for the Pakistani affiliate marketing market; implemented product discovery, affiliate link generation, and performance tracking.
- Used Firebase for authentication, real-time database, and push notifications; managed the full project lifecycle using Agile/Scrum with Jira, producing a Software Project Management plan covering WBS, timeline, and resource allocation.

Airtable — Google Sheets Real-Time CRUD Sync 2026
Airtable Scripts (JavaScript) · Google Apps Script · Airtable REST API

- Built a live sync tool that mirrors all CRUD operations from Airtable to Google Sheets in real time via JSON payloads POSTed to a Google Apps Script web-app endpoint.
- Authored both sides of the integration — the Airtable Scripts producer and the GAS consumer — with idempotent record matching by external ID so reapplied updates do not duplicate.
- Eliminates a recurring manual export-and-paste step from the client's downstream reporting and analytics workflow.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C++ , SQL

Frontend: React, Next.js, React Native, Vite, TanStack Query, Tailwind CSS, Expo

Backend: NestJS, Node.js, Fastify, Express.js, FastAPI, PHP Laravel

Databases & ORM: PostgreSQL, Supabase, Drizzle ORM, Prisma, Firebase, Oracle, Google Sheets + GAS

Architecture & Security: Schema design & normalization, multi-tenant / white-label hierarchies, audit logging, JWT/RBAC, HMAC-signed webhooks, separation of concerns, HLD/LLD, ER & state diagrams

Automation: Airtable Automations, N8N (self-hosted), Make.com, Google Apps Script

AI & Voice: Retell AI, Google Tacotron 2, Vision API, Video Intelligence API, Imagen 3, Veo

APIs & Testing: REST APIs, Webhooks, Postman, Numverify, NeverBounce, Mighty Caller, Airtable REST API

Deployment & Process: Vercel, Railway, self-managed Linux servers, Git/GitHub PR review, Agile / Scrum, Jira

Tools: Figma, Playwright, Selenium, Airtable Interface Builder