

AHMED FAROOQ

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SUMMARY

Go backend engineer with experience building data synchronization and distributed, event-driven services. Built a Go sync engine serving 70+ CRM accounts and processing millions of records on a 1 GB RAM, single-core instance. Experienced with PostgreSQL, API integrations, high-volume background processing, and production performance optimization.

EXPERIENCE

Rev9 Solutions

Associate Software Engineer

Jhelum, Pakistan

Feb 2025 – Present

- Architected a Go-based synchronization engine for 70+ Follow Up Boss accounts, processing millions of records on a 1 GB RAM, single-core instance with zero downtime.
- Built and maintained backend services and third-party API integrations supporting CRM synchronization, email delivery, and real-time activity tracking.
- Migrated backend workloads to NestJS microservices with Redis caching and event-driven processing, increasing background job success rates by 350%.
- Optimized MongoDB and backend performance, reducing application load times from 1 minute to 3 seconds and critical query times from 3 minutes to 8 seconds.
- Built a visual automation engine processing 30M+ multi-step automation jobs per month.
- Engineered email infrastructure delivering 15M+ emails monthly through SendGrid, Gmail, and Outlook APIs, with custom domains and real-time tracking.
- Migrated the frontend from CRA to Next.js, improving speed by 55% and strengthening SEO through server-side rendering.

PROJECTS

Smartlistzero | Go, PostgreSQL, React, TypeScript, Follow Up Boss API

- Built a performance analytics platform for Follow Up Boss, surfacing agent productivity and pipeline health from CRM activity.
- Deployed across 70+ agencies managing 5 million contacts, processing millions of CRM records for real-time insights.
- Integrated with the Follow Up Boss API to synchronize and analyze CRM contact data.

Trevy | NestJS, Node.js, Redis, MongoDB, BullMQ

- Built a marketing automation engine using behavioral triggers, delivering 15M+ emails and processing 35M+ data events monthly.
- Designed a Redis and BullMQ event-processing pipeline for reliable, low-latency background jobs and multi-step campaigns.

BAMF.AI | Next.js, MongoDB, Express.js, Astria AI, Replicate

- Developed an AI-powered LinkedIn photo generator integrating image-generation services through REST APIs.
- Managed asynchronous AI jobs and optimized the image-processing workflow for quality and speed.

EDUCATION

NUST (SEECS)

M.S. in Computer Science

Focus: scalable backend architecture and AI-driven system design

Islamabad, Pakistan

2026 – Present

Mirpur University of Science and Technology (MUST)

B.S. in Electrical Engineering

Focus: data structures and algorithms, signal processing, and analytical problem-solving

Mirpur, Pakistan

2020 – 2024

TECHNICAL SKILLS

Languages & Backend: Go (Gin), TypeScript, Node.js, NestJS, Express.js

Databases & Queues: PostgreSQL, MongoDB, Redis, BullMQ

Systems & Cloud: Distributed services, event-driven architecture, Docker, AWS, GCP, Oracle Cloud, Linux, Git

AI Integrations: LangChain, LangGraph, Astria AI, Replicate