

Md Sakib

AI Automation Engineer · Python & FastAPI · MCP · LLM & RAG Systems · n8n

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Professional Summary

AI Automation Engineer who ships production systems, not just drag-and-drop flows. Builds full-stack AI platforms (FastAPI + Next.js), custom MCP servers exposing tools to LLM clients, RAG pipelines over pgvector, and end-to-end marketing automation on n8n. Strong in Python, REST/Graph API integration, PostgreSQL, webhooks, and LLM orchestration (OpenAI, Claude).

Technical Skills

Languages	Python (primary), JavaScript/TypeScript, SQL
Backend & APIs	FastAPI, SQLAlchemy, REST APIs, Facebook Graph API, Webhooks, JWT auth, WebSockets
AI / LLM	OpenAI, Claude, DeepSeek APIs, RAG, pgvector similarity search, embeddings, prompt engineering
MCP Development	FastMCP, custom MCP servers & tools, MCP deployment, Ahrefs API, GA4 data integration
Automation	n8n (scheduled, event-driven, multi-step), webhook pipelines, error handling, retry/fallback
Data & Scraping	PostgreSQL + pgvector, Playwright, Google Sheets API, CSV/PDF/DOCX processing, Pandas
Frontend & DevOps	Next.js (App Router), React, Tailwind, Docker & docker-compose, Git/GitHub, Postman

Professional Experience

AKIJ iBOS — Dhaka, Bangladesh

May 2026 – Present

AI & Automation Engineer (Intern)

- Contributed backend/automation and frontend to **ChannelSync** — a unified omnichannel (voice + message) customer-support product: speech-to-speech, MCP-native, BYOK (any model), deployable on-prem for data residency and regulated teams.
- Minimized manual workload across marketing and other teams by automating repetitive reporting, lead handling, and publishing end-to-end — replacing hours of hand-done work with self-running pipelines.
- Built Python + n8n automation connecting backend AI outputs to live enterprise systems via REST/Graph APIs, with error logging, output validation, and reusable integration components.

Key Projects

Applications & AI Systems

social_bot — Multi-Tenant AI Customer-Support Platform

Live · GitHub

FastAPI · Next.js 15 / React 19 · PostgreSQL + pgvector · OpenAI · WebSocket · Docker

- Built a standalone multi-tenant Facebook Messenger support platform: businesses connect Pages, messages stream into a real-time WebSocket inbox, and per-page AI agents auto-reply with human-takeover.
- Engineered a RAG pipeline (PDF/DOCX/TXT ingestion, chunking, embeddings, pgvector cosine retrieval) for grounded answers; own JWT auth, Fernet-encrypted page tokens, and HMAC-verified webhooks.

Leads Scraper — Sheet-Triggered Google Maps Lead Engine

GitHub

FastAPI · Playwright · PostgreSQL · Google Sheets API · async concurrency

- Built a FastAPI service that polls a Google Sheet, scrapes Google Maps, and enriches emails/socials from business sites, persisting each lead on finalize (crash-safe).
- Enforced DB-level dedup via a UNIQUE key (domain → phone → name+address) with re-scrape field merging.

MCP Servers (LLM Tooling)

WordPress MCP Server

Live Endpoint · GitHub

FastMCP · WordPress REST API · Application-Password auth · Prefect Horizon deploy

- Built a remote MCP server exposing draft / publish / update / search tools that let any MCP client (incl. Claude) manage a self-hosted WordPress site — no plugins, authenticated via Application Passwords.

SEO MCP Server

Live Endpoint · GitHub

FastMCP · Ahrefs API · GA4 · Prefect Horizon deploy

- Built an MCP server that collects GA4 analytics and Ahrefs SEO data (via Ahrefs API key) and exposes it as callable tools — giving LLM clients on-demand access to live traffic and SEO metrics.

Marketing Automation (n8n)

Meta Ads Lead-Capture Automation — All Company Pages

n8n · Graph API · Google Sheets · CRM

- Built webhook-driven lead capture across all Meta (Facebook/Instagram) lead-gen pages: verifies Meta's handshake, ACKs instantly, fetches lead data from the Graph API, normalizes to Dhaka time, dedups, and lands each lead into Google Sheets and the internal CRM with retry/fallback.

AI-Powered Daily Ads Reporting Digest

n8n · Meta Ads API · Google Ads API · LLM-DeepSeek · Gmail API

- Automated a scheduled Meta + Google Ads digest fetching live spend/CPL/CPA, running DeepSeek analysis with strict anomaly thresholds, and auto-emailing an executive summary — guarded by a hallucination check flagging runs with no live tool data.

Education & Achievements

ZNRF University of Management Sciences, Dhaka

Jul 2022 – Jul 2026

B.Eng. in Computer Science & Engineering | Top 5% of batch | ZNRF Trust Scholarship recipient **ICPC Dhaka Regional 2023** — Rank 147 among 300+ teams | **General Secretary**, ZUMS Student Forum (2025) | **Executive Member**, BASIS Student Forum