HOJAYFA RAHMAN

Software Engineer · Backend & Platform for AI Products
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SUMMARY

Software engineer who builds the systems AI products actually run on: multi-tenant backends, retrieval and search infrastructure, domain logic, and the operator console on top. Three years shipping production software, the last two on agentic systems. Usually the one who owns the whole system: data model, services, the interface in front of it, and the infrastructure it runs on. That has meant a garment factory's production floor, a 1B-record lead graph, and a multi-channel AI concierge under EU data residency. The agent layer is what gets demoed; the reliability underneath is the work.

EXPERIENCE

SubscriptionPro Hybrid - Dhaka, Bangladesh
Senior Software Engineer May 2026 – Present

- Own a multi-channel AI concierge platform for the European luxury-travel market front to back: the agent loop, the retrieval and memory layers, the channel integrations, the operator console, and the AWS infrastructure under all of it.
- Built the agent loop in-house rather than on a framework, and the MCP tool layer it calls through, with tenant scoping enforced at the protocol layer so a tool call cannot cross a tenant boundary.
- Built the supply side the assistant depends on: partner and provider integrations, sourcing, ranking, and CRM sync, so a recommendation resolves to something actually bookable rather than to plausible text.
- Hold one continuous conversation per client across WhatsApp, email, voice and web, over per-tenant memory and embeddings isolated on PostgreSQL and pgvector behind async FastAPI services.
- Built the data-privacy layer and run the EU-resident infrastructure: AWS ECS Fargate provisioned with Terraform, KMS-backed secrets, and per-subject GDPR consent enforced in the data model.

SoftStandard Solutions Hybrid - Dhaka, Bangladesh
Full Stack Software Engineer Jun 2025 – Apr 2026

- Built an eight-agent sales system on one explicit state machine (company finder, lead finder, email finder, enrichment, verification, scoring, campaign, reply handling), with retry and backoff per stage and a single core exposed over both REST and MCP.
- Replaced Apollo, ZoomInfo and Instantly across the product suite with in-house lead search, enrichment, email verification and warmup services over a 1B+ lead and 120M+ verified-email corpus.
- Cut search-API token output by ~70% at sub-300 ms response times, returning clean markdown instead of raw HTML so RAG and deep-research agents get source-aware results inside a tight context budget.
- Shipped a marketing agent in Go (Fiber, with River for background jobs): 30+ tools publishing to 8 social platforms, gated by role-based approval so nothing goes live without a named human signing off.
- Orchestrated multi-provider LLM pipelines with LangGraph for research, enrichment and content generation.

Humana Apparels Ltd (Ha-Meem Group) — ready-made garments Onsite/Hybrid - Tangail, Bangladesh
Software Engineer Aug 2024 – May 2025

- Built ProTrac, a real-time production-tracking system for one of Bangladesh's largest garment manufacturers, on Django REST and Next.js. Replaced day-late manual reporting with live bottleneck, DHU and plan-versus-actual signals, surfaced while a shift could still be corrected.
- Built TrueSpec for raw-material planning, flagging vendor price shifts, missing or duplicate orders and warehouse-utilization risk before they stalled a production line.
- Retained part-time as technical consultant after handover, advising on architecture, database performance and infrastructure.

Hours Media Ltd Remote
Software Engineer Sep 2023 – Apr 2024

- Built and ran backend services, automation APIs and background workers for client products (reselling, micro-investing, e-commerce) in Python and Next.js on PostgreSQL, working directly with clients to turn requirements into scope.

SKILLS

AI and Agents: Agentic Workflows, MCP (Model Context Protocol), RAG, Vector and Hybrid Search, pgvector, LLM APIs, LangGraph
Backend and APIs: Python, Go, FastAPI, Django REST Framework, Celery, SQLAlchemy, Fiber, Node.js, REST APIs, GraphQL
Frontend: TypeScript, React, Next.js, Tailwind CSS
Data and Infrastructure: SQL / PostgreSQL, Redis (Streams), AWS (ECS Fargate, Secrets Manager, KMS), Terraform, Docker, GitHub Actions

EDUCATION

Bachelor of Science in Software Engineering
Daffodil International University, Dhaka, Bangladesh · CGPA 3.72 / 4.00 Sep 2020 – Jun 2024

Languages: English (Professional Proficiency) · Bangla (Native Speaker)