

HOJAYFA RAHMAN

Software Engineer | Technical Consultant | AI & Agentic Developer

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PROFESSIONAL SUMMARY

Software Engineer and Technical Consultant focused on building agentic AI and automation solutions — from LLM-powered workflows and RAG systems to scalable backend platforms. My work combines hands-on engineering with R&D and market analysis, allowing me to design solutions that are not only technically sound but also aligned with real-world needs and opportunities. Passionate about transforming ideas into production-ready systems, I thrive at the intersection of AI research, software engineering, and business impact.

WORK EXPERIENCE

SoftStandard Solutions

Hybrid - Dhaka, Bangladesh

Full Stack Software Engineer

Jun 2025 – Present

- Architected and deployed enterprise-scale AI/agentic SaaS solutions using LangChain/LangGraph, handling 1000+ concurrent users
- Built robust LLM orchestration pipelines with GPT and Gemini models, implementing advanced RAG systems for knowledge retrieval
- Developed high-performance REST APIs using FastAPI and Django REST Framework, serving 10,000+ requests daily
- Designed multi-tenant architecture with PostgreSQL and MongoDB, ensuring data isolation and 99.9% uptime
- Implemented comprehensive testing strategies using Playwright, Vitest, and Pytest, achieving 95% code coverage
- Optimized application performance and cost efficiency, reducing infrastructure costs by 30% through strategic caching with Redis

Humana Apparels (Ha-Meem Group)

Hybrid - Tangail, Bangladesh

Technical Consultant

Jan 2025 – Present

- Retained as external consultant to advise on system architecture and deliver targeted performance optimizations
- Implemented infrastructure improvements using Proxmox, Windows Server, and Hyper-V virtualization technologies
- Provided technical guidance on Django REST Framework best practices and database optimization strategies

Software Engineer

Jan 2025 – Jun 2025

- Developed internal tracking and automation tools, reducing manual processes by 60%
- Built comprehensive infrastructure solutions and system integrations for production environment
- Created full-stack applications using Django REST Framework and Next.js with TypeScript
- Implemented automated workflows and CI/CD pipelines using GitHub Actions and Docker
- Managed enterprise infrastructure including Active Directory, Linux servers, and network configurations

RAKTCH

Onsite - Dhaka, Bangladesh

Jr. Software Engineer

Sep 2024 – Jan 2025

- Implemented end-to-end features using Django REST Framework and PostgreSQL, improving application performance by 25%
- Optimized API integrations and enhanced UI performance using Next.js and React Query for efficient data management
- Collaborated on testing strategies using Pytest and participated in code reviews to maintain high-quality standards

ZenithXTech

Hybrid - Dhaka, Bangladesh

Full Stack Web Developer

Nov 2023 – Jul 2024

- Developed high-performance web applications using Next.js, TypeScript, and tRPC for type-safe API communication
- Built scalable backend solutions with Django MVC architecture and implemented secure payment processing with Stripe
- Created fast static sites using Astro framework and enhanced user experiences with React and Tailwind CSS
- Deployed containerized applications using Docker and managed database operations with Prisma ORM

EDUCATION

Daffodil International University
Bachelor of Science in Software Engineering

- **Honors:** CGPA: 3.71/4.00
- **Courses:** Data Structures & Algorithms, Machine Learning, Computer Networks, Object Oriented Programming, Design Patterns, Database Management Systems, Operating Systems, Software Engineering, Web Development
- Completed comprehensive software engineering curriculum with focus on modern development practices
- Specialized in full-stack development, software design patterns, and system architecture

Ashuliya, Savar, Bangladesh
Sep 2020 – Jun 2024

Government Science College
Higher Secondary Certificate in Science

- **Honors:** GPA: 4.33/5.00
- **Courses:** Mathematics, Physics, Chemistry, Biology, Information & Communication Technology
- Focused on mathematics, physics, and computer science fundamentals

Dhaka, Bangladesh
Jun 2018 – May 2020

PROJECTS

AI Marketing SaaS Platform
SoftStandard Solutions

- Developed comprehensive AI-powered marketing automation platform that handles all marketing tasks automatically
- Implemented intelligent goal-based system where users simply connect accounts and specify objectives
- Built sophisticated LLM orchestration using LangChain and LangGraph for content generation and campaign optimization
- Architected scalable backend with FastAPI and Django REST Framework, integrated with Redis and Celery for task management

Jun 2025 – Present

AI Lead Discovery & Validation Pipeline
SoftStandard Solutions

- Engineered advanced AI/agent pipeline for automated lead discovery and email inference with 95% accuracy
- Implemented sophisticated validation mechanisms using machine learning models and web scraping techniques
- Built real-time processing system using LangChain, Redis, and Celery for handling large-scale lead generation
- Developed RESTful APIs with FastAPI and Django REST Framework for seamless integration with CRM systems

Jun 2025 – Present

Production Tracking & Analytics System
Humana Apparels

- Designed comprehensive production monitoring system tracking bottlenecks, quality metrics, and throughput in real-time
- Implemented hardware integration solutions connecting industrial sensors and IoT devices to centralized dashboard
- Built robust infrastructure architecture managing data flow from factory floor to executive dashboards
- Developed predictive analytics features identifying production issues before they impact delivery schedules

Jan 2025 – Jun 2025

Order Completion MIS & Supply Chain Optimization
Humana Apparels

- Created end-to-end order tracking system consolidating raw materials procurement and reducing manual labor by 70%
- Implemented intelligent consolidation algorithms achieving 25% better pricing through optimized bulk ordering
- Built real-time status transparency system providing complete visibility across supply chain stakeholders
- Developed warehouse optimization features enabling just-in-time ordering and reducing storage costs by 30%

Jan 2025 – Jun 2025

Micro Investment Platform
RAKTCH

- Developed fractional investment platform enabling users to invest in premium assets with minimal capital
- Implemented distributed investment algorithms allowing micro-investments in real estate, commodities, and collectibles
- Built secure transaction processing system with blockchain integration ensuring transparent asset ownership
- Created user-friendly interface with real-time portfolio tracking and automated diversification recommendations

Sep 2024 – Jan 2025

Educational Marketplace Platform
RAKTCH

- Built comprehensive platform connecting educators and students through intelligent matching algorithms
- Implemented AI-powered recommendation system analyzing teaching styles, learning preferences, and performance data

Sep 2024 – Jan 2025

- Developed integrated scheduling, payment processing, and progress tracking systems for seamless user experience
- Created review and rating systems with fraud detection ensuring authentic feedback and quality assurance

E-commerce & Marketplace Solutions

ZenithXTech

Nov 2023 – Jul 2024

- Developed scalable e-commerce platform with advanced inventory management and multi-vendor support
- Built comprehensive product catalog system with intelligent search, filtering, and recommendation engines
- Implemented secure payment gateway integration supporting multiple payment methods and currencies
- Created responsive frontend using Next.js and TypeScript ensuring optimal performance across all devices

Dropshipping Management Platform

ZenithXTech

Nov 2023 – Jul 2024

- Engineered automated dropshipping platform connecting suppliers, sellers, and customers seamlessly
- Implemented real-time inventory synchronization preventing overselling and ensuring accurate stock levels
- Built automated order routing system optimizing supplier selection based on location, pricing, and reliability
- Developed comprehensive analytics dashboard providing insights into sales performance and market trends

Human Resource Management System

ZenithXTech

Nov 2023 – Jul 2024

- Created comprehensive HRM platform managing employee lifecycle from recruitment to retirement
- Implemented automated payroll processing, leave management, and performance evaluation systems
- Built role-based access control system ensuring data security and compliance with labor regulations
- Developed employee self-service portal reducing HR workload and improving employee satisfaction

Educational Institution Management Portal

ZenithXTech

Nov 2023 – Jul 2024

- Developed complete institutional portal managing exam registration, admit card generation, and fee collection
- Built automated admit card distribution system with SMS and email notifications reducing manual processing
- Implemented secure student portal with grade tracking, course materials, and communication features
- Created content management system for institutional blog, gallery, and news publication

Automotive Point of Sale System

ZenithXTech

Nov 2023 – Jul 2024

- Built specialized POS system for automotive sales with complex inventory management and pricing structures
- Implemented vehicle specification tracking, warranty management, and service scheduling integration
- Developed commission calculation system for sales teams with multi-tier incentive structures
- Created comprehensive reporting system providing insights into sales performance and inventory turnover

SKILLS, LANGUAGES, INTERESTS

- **Languages:** English (Professional Proficiency), Bangla (Native Speaker)
- **AI & Machine Learning:** LangChain, LangGraph, OpenAI GPT, Google Gemini, Retrieval-Augmented Generation (RAG), Vector Databases, Large Language Models (LLMs), AI Agent Development, Natural Language Processing
- **Backend Development:** FastAPI, Django REST Framework (DRF), Django, Node.js, Express.js, Python, TypeScript, REST APIs, GraphQL, tRPC, Pydantic, Celery, Redis
- **Frontend Development:** Next.js, React, TypeScript, T3 Stack, Tailwind CSS, React Query, Zustand, HTMX, Astro, JavaScript, Zod
- **Database & Cloud:** PostgreSQL, MongoDB, Prisma ORM, Database Optimization, Multi-tenant Architecture, Cloud Infrastructure, Performance Tuning, Data Analytics
- **DevOps & Testing:** Docker, Docker Compose, GitHub Actions, CI/CD Pipelines, Playwright, Pytest, Vitest, Git, Linux, Shell Scripting, Infrastructure Management
- **Enterprise & Infrastructure:** Proxmox, Windows Server, Hyper-V, Active Directory, OpenWrt, Network Configuration, System Administration, Performance Optimization
- **Data Analysis & Business Intelligence:** Power BI, Google Analytics, NumPy, Pandas, Jupyter Notebook, Data Visualization, Market Analysis, Performance Metrics
- **Project Management & Soft Skills:** Agile Methodologies, Project Orchestration, Stakeholder Management, Technical Leadership, Cross-functional Collaboration, Client Management, Problem Solving, System Architecture Design

- **Interests:** Traveling and exploring new cultures, Experimenting with cutting-edge technologies, Tinkering with hardware and software systems, Pet care and animal welfare (particularly ducks and cats), Innovative farming techniques (aeronic and hydroponic systems), IoT and home automation projects