

# Sk. Azraf Sami

Software Engineer

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📍 Dhaka, Bangladesh

## Professional Summary

Software Engineer building enterprise microservices and AI-powered products, with hands-on experience across full-stack development and applied machine learning. Award-winning builder (Runners-up, Infinity AI BuildFest 2026) skilled in backend architecture (NestJS / Node.js, FastAPI, PostgreSQL, API gateways & RBAC), full-stack React / TypeScript, and applied AI including Retrieval-Augmented Generation, LLM agents, and speech / vision pipelines (Whisper STT, OCR). Passionate about building scalable, reliable systems that solve real-world problems.

## Technical Skills

- **Languages:** TypeScript, JavaScript, Python, Java, C / C++, C#, Solidity
- **Backend:** Node.js, NestJS, Express, FastAPI, Django, Celery, ASP.NET MVC, RESTful APIs, Microservices, API Gateway, RBAC
- **Frontend:** React, Next.js, Redux Toolkit, RTK Query, HTML5, CSS3, Tailwind, Bootstrap
- **Databases:** PostgreSQL (pgvector), MySQL, MongoDB, MSSQL, Redis, Firebase
- **AI / Machine Learning:** RAG, LangChain, LangGraph, Ollama, OpenAI & Gemini APIs, Whisper STT, embeddings & vector search, OCR pipelines, sentiment analysis
- **Tools & DevOps:** Docker, Kubernetes, CI/CD, Nginx, Socket.IO, RabbitMQ, gRPC, Git, GitHub, Jira, Postman, Bruno, Agile / Scrum

## Professional Experience

### Associate Software Engineer

RoBenDevs

September 2025 – Present · Full-time · Hybrid

- Build and maintain backend microservices for an enterprise CRM & SaaS platform, owning service architecture, database schema design, and cross-service integration.
- Engineered a shared API gateway handling service routing, JWT verification, RBAC, subscription checks, and rate limiting across all microservices.
- Designed a queue-based architecture for bulk email and SMS campaigns, engineered to fan out to millions of customers at campaign time with batched, rate-controlled delivery.
- Built an AI-assisted telephony microservice (Asterisk ARI/AMI + OpenAI Whisper STT) that automates IVR navigation and bridges live agents to staff, eliminating long hold times.
- Rebuilt a quote & pricing builder with Excel-like data grids (advanced validation, pagination, filtering); improved API and database performance through indexing and efficient pagination.
- Built a Freshsales-style contact filtering feature supporting composable, multi-condition queries over large contact datasets.
- Added Gmail mailbox integration, Socket.IO real-time features, and secure validation layers; collaborated with PMs on PRDs and Figma designs.

### Software Engineer Intern

RoBenDevs

May 2025 – September 2025 · Internship · Hybrid

- Built a full-scale HRMS on the PERN stack; translated Figma designs into reusable, responsive React components and developed Employee, Organization, Food & Bill Management modules.
- Built a real-time team-based treasure-hunt / tour event platform (React + TypeScript + Vite, Firebase) with roadmap-based checkpoint sequencing, QR check-ins, and a live leaderboard.
- Built an OCR invoice-processing pipeline (Gemini API) to extract structured JSON; deployed services on local Kubernetes infrastructure and applied Agile/Scrum practices.

## Vice President

January 2024 – August 2025 · Software Research & Development Community

Bit2Byte Club, KUET

## Teaching Assistant

February 2025 – July 2025 · Part-time · Remote

Ostad

## Head of Management, Datathon

June 2024 – January 2025 · Khulna, Bangladesh

BitFest 2.0

## Projects

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- **Nirpekha Barta: AI Unbiased News Aggregation** (Next.js 14, FastAPI, Celery, LangChain, PostgreSQL, Redis, Docker; Runners-up, Infinity AI BuildFest 2026)  
Clusters the same story across politically diverse Bangladeshi newspapers, scores each source's political bias, and generates one neutral Bangla summary with full source transparency; an async collect → cluster → bias-score → summarize → publish pipeline runs unattended on a VPS.  
[Live site](#) [Demo video](#)
- **AI Sales Coaching Platform** (FastAPI, Celery, React 19, LLM, Aircall, Salesforce)  
Auto-transcribes and LLM-scores every Aircall sales call against a fixed rubric, delivering specific coaching feedback within minutes (100% AI-scored coverage versus manual review of <10%), with results written back to Salesforce.
- **LocalLens: Conversational AI Agent** (Python, LangGraph, LangChain, FastAPI, Playwright)  
Multi-agent system (intent → geolocation → multi-source search → review + sentiment → grounded summary) with a LangGraph orchestrator, SSE streaming, disk caching, and fact-checking against source data.
- **RAG Docs Assistant** (Python, FastAPI, pgvector, Ollama, Docker)  
Fully local documentation Q&A that crawls docs sites or ingests PDF/DOCX/HTML, with token-aware chunking, semantic search over pgvector, and grounded answers from a local LLM with no external API.
- **Standup Bot** (Cloudflare Workers, D1 SQLite, Telegram, Jira, Bitbucket)  
Serverless bot that aggregates Bitbucket commits/PRs (polling or webhook) and Jira activity, then posts a daily standup digest to Telegram on schedule, running entirely on Cloudflare Workers + D1 at zero cost.
- **MCP Servers Monorepo** (TypeScript, Model Context Protocol, Node)  
Monorepo of self-contained Model Context Protocol (MCP) servers, including a database-agnostic, read-only SQL server that turns plain English into guarded SQL for safe LLM access to databases.

## Education

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- **Khulna University of Engineering & Technology (KUET)**  
B.Sc. in Computer Science & Engineering (2019 – 2025)  
CGPA: 3.19 / 4.00
- **Notre Dame College, Dhaka**  
Higher Secondary Certificate (HSC), Science (2017 – 2019)  
GPA: 5.00 / 5.00

## Achievements & Activities

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- **Rising Royal Award** (quarterly company-wide performance recognition), RoBenDevs, Q1 2026
- **Runners-up**, Infinity AI BuildFest 2026 (InfoTech section), CloudCamp BD
- **4th Place**, National Datathon Competition, Khulna University, among 120+ teams
- Member, Notre Dame Debating Club, Notre Dame College

## Certifications

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- Kubernetes, CI/CD, Linux, and DevOps fundamentals (KodeKloud, Simplilearn)
- REST API, SQL, React, and Problem Solving certifications (HackerRank)
- National Datathon 2024 Finalist Certificate (Khulna University)
- Fundamentals of MCP (Hugging Face)

[View all certificates](#)