

Sajid Mahmud

📍 Aftabnagar, Dhaka 1212 📞 +8801753289149 ✉️ sajid.m.mahmud.1@gmail.com
👤 [Portfolio](#) [in Sajid Mahmud](#) 🌐 <https://github.com/sajiiid09>

Summary

Computer Science and Engineering graduate skilled in full-stack web development (PERN/React/FastAPI), backend API design, database management, and AI/LLM integration. Experienced in building scalable mobile and web applications, optimizing data workflows, and deploying production-ready systems. Strong problem-solver with a solid understanding of software design, development, and testing. Currently mastering the power of LLMs, prompt engineering, and AI-driven automation.

Skills

Languages: TypeScript, JavaScript (ES6+), Python, Dart, PHP, SQL, HTML5, CSS3

Frontend Frameworks: React.js, Next.js, Tailwind CSS, Flutter

Backend Frameworks: Supabase, Express.js, NestJS, FastAPI, Django, Laravel

Runtimes & Environments: Node.js, Bun

Databases & Data Modeling: PostgreSQL, MySQL, MongoDB, Prisma, Mongoose, SQLAlchemy

AI Integration & Cloud Architecture: RAG, LangChain, Pydantic AI, OpenAI Codex, Gemini, Anthropic, GLM, RESTful APIs, GraphQL

Tools:

- **Traditional:** Git, Linux, MS Excel/Access, Adobe Suite, Google AI Studio, NotebookLM
- **IDE:** VSCode, Cursor, Claude-code, Codex, OpenCode, Antigravity

Experience

RACO AI and Technologies, Full-Stack Software Developer, **On-Site**

Uttara, Dhaka
Nov 2025 to Present

- Designed and implemented scalable full-stack features using **React.js**, **FastAPI**, and **PostgreSQL**, improving platform usability for sales teams.
- Collaborated directly with external clients to translate complex business requirements into technical specifications, reducing development backlog.
- Delivered critical production modules ahead of strict deadlines by adhering to Agile methodologies.

Strathwell Inc., Associate Software Engineer, **Remote**

Boston, USA
Dec 2025 to September 2026

- Developed scalable full-stack features using **Nextjs**, improving platform usability for sales teams.
- Architected an advanced **Retrieval-Augmented Generation (RAG)** system powered by generative AI, utilizing **Pydantic AI** for data validation and structured output generation.
- Bridged the gap between business and engineering, helped us cut post-development rework by big margin.
- Shipped high-priority production features under strict deadlines and comprehensive testing.

Prime Real State, Sales Exec, Remote

- Gained hands-on experience in talking to clients on a sales platform.
- Developed skills in conversation skills in English and conviction.
- completed multiple threshold and deadlines, ensuring full client alignment through direct communication.

USA
Jan 2024 to Apr 2024
4 months

Education

BSc. BRAC University, Computer Science and Engineering

- **CGPA:** 3.15
- **Thesis:** Emotion Integration to handle Sign Error Recovery in Bangla Sign Language Recognition using original Dataset
- **Coursework:** Software Foundations, Computer Architecture, Data Structure and Algorithms, Artificial Intelligence, Comparison of Learning Algorithms, Compiler Design, Data Science etc
- **Extra Curriculum:** General Member of BRAC University Computer Club (BUCC) and BRAC University Cultural Club (BUCuC)

Merul Badda, Dhaka
Jan. 2020 to Aug. 2025

HSC. Govt MM College, Science

Jessore
2019

Projects

RACO-AI Agentic Chat System [🔗](#)

Jan. 2026

- Engineered a high-conversion landing page integrated with a **Pydantic AI** agent for structured user interaction.
- Implemented **RAG (Retrieval-Augmented Generation)** to provide real-time, context-aware answers from product documentation.
- Utilized **Type-safe** AI responses to ensure seamless UI rendering and validated lead generation workflows.

Strathwell: AI Event Orchestration & Automation [🔗](#)

Feb. 2026

- Developed an end-to-end automation platform using **Pydantic AI** for multi-agent event coordination and scheduling.
- Leveraged **Vector Databases** and RAG to automate event logistics based on historical data and user preferences.
- Built a robust backend to handle complex event triggers, utilizing **Model-based validation** for error-free execution.

RacoLearnHub: Interactive STEM Learning Management System [🔗](#)

2026

- Engineered a full-stack LMS platform featuring modular **course management**, dynamic assessments, and automated student progress tracking.
- Integrated interactive STEM **simulations** to facilitate virtual laboratory experiments and concept visualization.
- Implemented a low-latency **real-time collaborative whiteboard** enabling multi-user synchronization and interactive group learning.
- Deployed the production-ready architecture across web domains (racoedu.com [🔗](#) and app.racoedu.com [🔗](#)) with role-based access control.

Emotional Feature Integrated BdSL-Langchain [🔗](#)

Dec. 2024

- Worked with massive dataset
- Learnt to pre-process, Normalise and Standardize large quantity of data
- Real time ML-AI integration

Reference

Abdullah Al Mamun

Team Leader

USA 401K Plan Administrator

Datapath

Bashundhara RA

Mehedi Hasan

Team Leader

AI Engineer

SM Technology, RACO AI

Uttara