HM Ashiqur Rahman

AI and Backend Engineer

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Education

North South University Dhaka, Bangladesh
BSc in Computer Science and Engineering Jan 2020 – Apr 2025

Skill Summary

- **Programming Languages:** Python, C++
- **Frameworks & Tools:** FastAPI, Django, Django REST Framework (DRF), Langchain, Phidata, PyTorch, Streamlit, Pytest (Unit & Integration Testing)
- **Generative AI Technologies:** Open-source and paid LLMs (LLaMA 3, Mistral, OpenAI, Google, Groq)
- **Vector Databases:** ChromaDB, Pinecone, FAISS
- **Database Management:** MySQL, PostgreSQL, SQLite
- **AI/ML Techniques:** Fine-tuning with custom data, vector embedding, NLP, MLflow
- **Background Tasks & Caching:** Celery, Redis
- **Cloud Computing:** AWS (in progress)
- **Soft Skills:** Analytical thinking, problem-solving, teamwork, effective communication

Work Experience

Generative AI Engineer and Backend Developer (Internship) | Solvrz | Link Sep 2024 – Apr 2025

- Built AI-driven applications using FastAPI, PostgreSQL, and Pinecone.
- Integrated LLM capabilities via LangChain and Phidata in backend systems.
- Designed scalable, efficient APIs and agentic workflows.
- Focused on intelligent automation and real-world use cases.

Projects

Chatinit | Link [Oct, 2024]

- AI Chatbot enabling 24/7 personalized customer interactions.
- **Technologies:** OpenAI APIs, FastAPI, Google Gemini, Langchain.
- **Outcome:** Deployed AI backend with strong early traction.

TODOS | Link [May, 2025]

- Full-featured TODO system with role-based access and authentication.
- **Technologies:** FastAPI, PostgreSQL, OAuth2, JWT, SQLAlchemy.
- **Outcome:** Secure login, admin panel, and complete CRUD.

Online Shop API | Link [July, 2025]

- Backend-only online shopping platform with product, cart, and order management.
- **Technologies:** Django REST Framework, Celery, Redis, PostgreSQL.
- **Outcome:** Fully functional REST API with async task handling and secure authentication.

Restaurant Menu QR Generator | Link [Aug, 2025]

- Django app generating QR codes for restaurant menus from image URLs.
- **Technologies:** Django, Pillow, qrcode, Docker.
- **Outcome:** User-friendly QR generator.