# H.M Ashiqur Rahman

**Generative AI & Backend Engineer**
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## Objective

Energetic and innovative Generative AI and Backend Engineer eager to leverage a strong foundation in AI technologies and backend systems. Specializes in vector databases, LLM frameworks and API development. Aims to contribute technical expertise and creativity to build scalable, intelligent systems within a dynamic and forward-thinking team environment.

## Education

**Bachelor of Science in Computer Science**
**Northsouth University, 2025**
**Relevant Coursework**: Machine Learning, Artificial Intelligence, Data Structures and Algorithms

## Skills

- **Programming Languages**: Python
- **Frameworks & Tools**: FastAPI, Langchain, Phidata, Pytorch
- **Generative AI Technologies**: Open-source and paid LLM models (Llama3, Mistral,OpenAI,Google, Groq)
- **Vector Databases**: ChromaDB, Pinecone
- **Database Management**: Experience with MySQL, PostgreSQL
- **AI/ML Techniques**: Fine-tuning with custom data, vector embedding, NLP, MLFlow
- **Soft Skills**: Analytical thinking, problem-solving, teamwork, effective communication

## Professional Experience

- **Generative AI Engineer and Backend Developer (Internship) at Solvrz:** Worked as a Generative AI and Backend Developer, building AI-driven applications using FastAPI, PostgreSQL, and vector databases like Pinecone. Leveraged frameworks such as LangChain and Phidata to develop agentic workflows and integrate LLM capabilities into backend systems. Focused on creating scalable, efficient APIs and intelligent automation features for real-world use cases.

# Projects

## Chatinit

- **Overview**: AI Chatbot Initiator. Experience the future of customer engagement with Chatinit AI Chatbots – 24/7 virtual assistants enabling seamless, personalized interactions.
- **Technologies**: OpenAI APIs, FastAPI, Google Gemini, Langchain.
- **Outcome**: Developed and deployed the Generative AI and backend systems; the product is performing well in its pre-revenue stage with promising early adoption.

## LlamaOCR

- **Overview**: Built an OCR system that scans passports and extracts structured data using AI-powered document understanding.
- **Technologies**: FastAPI, Tesseract, OpenCV, LangChain, LLMs.
- **Outcome**: Successfully automated passport data extraction with high accuracy, streamlining identity verification and data entry processes.