

Jahidul Islam

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Professional Summary

Research-focused AI Engineer specializing in NLP, LLM agents, and RAG. Experienced in building ReAct/CodeAct agents, evaluation pipelines, and retrieval systems using Python, LangChain/LangGraph, and data analysis (Pandas, NumPy). Published at an A* conference and completed an LLM-focused thesis.

Education

B.Sc. in Computer Science and Engineering	<i>Jan 2026</i>
Green University of Bangladesh	
◦ CGPA: 3.41/4.00	
Higher Secondary Certificate (Science)	<i>2019</i>
Barkota H/S College, Comilla Board	
◦ GPA: 5.00/5.00	
Secondary School Certificate (Science)	<i>2017</i>
Lalpur Nazrul Islam High School, Comilla Board	
◦ GPA: 4.95/5.00	

Research & Publications

PyBangla at BLP-2025 Task 2: Enhancing Bangla-to-Python Code Generation with Iterative Self-Correction and Multilingual Agents [🔗](#)

BLP Workshop @ ACL-IJCNLP 2025 (A Conference)*

Jahidul Islam, Md Ataulha, Saiful Azad.

EntityEvoTKG-RAG: A Temporal Knowledge Graph for Tracking Entity Evolution in Time-Aware Retrieval Augmented Generation

Jahidul Islam, Hasimunnahar Shanta, Abrar Hossain.

Improved retrieval pipelines and embeddings for temporal reasoning.

Green University of Bangladesh — BSc Thesis

BanglaNostalgia: A Benchmark Dataset and Comparative Study for Nostalgia Detection in Bangla Social Media Text

2026 IEEE 2nd International Conference on Quantum Photonics, Artificial Intelligence & Networking

Jahidul Islam, Riya Hasan, Md. Ataulha.

Accepted / Minor Revision

Re-Draft RAG: Hybrid Multi-Perspective Speculative Drafting with ReAct Validation and Sequential Critique

2026 International Conference on Engineering and Frontier Technologies.

Submitted / Under Review

Experience

AI Engineer *November 2025 –*

Softvence Agency | Betopia Group

Present

- Build LLM-powered chatbots, RAG pipelines, and evaluation workflows for production
- Develop FastAPI services for inference, embeddings, retrieval, and data processing
- Implemented robust backend integrations using Docker, REST APIs, async event handling, and efficient request pipelines
- Integrated OpenAI, Gemini, Anthropic, and local LLM models into production-ready architectures

AI Agent Developer — Research & Development

2025 – Present

Independent Research Projects

- Built ReAct and CodeAct agents with multi-step reasoning and tool-calling

- Developed PyBanglaCodeAct agent achieving top-10 performance in BLP-2025 Task 2
 - Created automated research paper evaluation pipeline with structured LLM outputs
- Organizing Secretary** — IEEE Computer Society SB Chapter GUB, *(2025 - April 2026)*
Membership Development Coordinator — IEEE SB, Green University *(Jan 2024 - Feb 2025)*

Selected Projects

PyBanglaCodeAct Agent System — Autonomous coding agent with iterative self-correction. Achieved 94% pass@1 in dev phase and top-10 ranking (BLP-2025).

Automated Research Paper Evaluation — PDF extraction, novelty scoring, and reviewer assignment with structured LLM outputs.

Agentic RAG Chatbot — Context-aware assistant using RAG and tool routing for accurate retrieval and responses.

Skills

LLM & NLP: RAG, ReAct/CodeAct agents, LangChain, LangGraph, vLLM, prompt engineering

Programming & Data: Python, Pandas, NumPy, SQL, C++

ML & Tools: Hugging Face, embeddings, vector databases, FastAPI, Docker, Git

Awards & Certifications

Certificate — Python with Django (EDGE - ICT Division) *(July 2025)*

Certificate — PHP with Laravel (BASIS-BITM) *(August 2023)*

1st Runner-Up — IT Olympiad, GUB CSE Carnival *(2024)*

Languages

Bangla (native) | English (professional)

Extracurricular Activities

- Active participant in university programming contests and hackathons
- Solved 1000+ competitive programming problems on platforms like Codeforces ([@jahidulzaid](#)), Beecrowd, VJudge ([@jahidulzaid](#)), HackerRank, and LeetCode
- Volunteer for technical workshops and coding bootcamps at Green University
- Member, Green University Computer Club (GUCPC)
- Organized and hosted AI/ML study groups and peer learning sessions
- Contributor to open-source projects and online coding communities

References

Professor Dr. Md. Saiful Azad, PhD [↗](#)

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Green University of Bangladesh

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Md. Ataulha [↗](#)

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