

# Al Jami Islam Anik

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## Profile

I am a software engineer who enjoys building simple solutions to complex problems. I have experience building production-grade software from scratch through to deployment. I am also particularly keen on the theoretical and implementation aspects of Small Language Models and an enthusiast for Deep Learning and Machine Learning in general.

## Education

BRAC University

Dhaka, Bangladesh

Bachelor of Science in Computer Science, CGPA: 3.72 / 4.00

2022 to 2026

## Publications

### [AgentCollabBench: Diagnosing When Good Agents Make Bad Collaborators](#)

- *ICML 2025 Workshop on Failure Modes in Agentic AI*. Introduced a **900-task diagnostic benchmark** spanning software engineering, DevOps, and data engineering to measure four behavioral failure modes in multi-agent LLM systems: **instruction decay**, **false-belief contagion**, **context leakage**, and **tracer durability**.

## Work Experience

Software Engineer, Stealth Startup

Remote

Apr. 2026 to Present

- Building a **legal AI product** focused on the **mortgage foreclosure** domain, helping legal teams navigate case workflows and documentation at scale.

Software Engineer, Askturing.ai

Remote, United States

Jul. 2024 to Apr. 2026

- Built [app.askturing.ai](#) from scratch, driving **UI/UX decisions**, designing **database schemas**, and contributing in **backend architecture**.
- Contributed to the design and implementation of multiple **agentic workflows** powering the core product.
- Built a **retrieval-augmented generation system** covering document ingestion, retrieval pipelines, and citation-grounded response flows.
- Engineered an end-to-end **authentication system** supporting **2FA**, **SSO**, and **RBAC** with fine-grained permission controls.

## Projects

[Saul Goodman](#) | Python, Chroma, BM25, MinerU

- Built a grounded **RAG** command-line application that answers questions claim by claim with per-chunk citations. Implemented **hybrid retrieval** using Chroma, BM25, **Reciprocal Rank Fusion**, and **cross-encoder reranking**, plus a **faithfulness auditor** that flags unsupported claims. Operator edits feed back as reusable style, domain, and citation-trust signals so the system improves with use.

[Forgotten Lily](#) | Python, Gradio, Qwen2.5-7B, Nemotron-Mini-4B, Modal

[Live Demo](#)

- Created a narrative mystery game for the **HuggingFace Build Small Hackathon**, winning the **Best Demo award**. **Orchestrated three small models on a single T4 GPU** via Modal: **Qwen2.5-7B** for tone selection, **Nemotron-Mini-4B** for answer grading, and **Kokoro TTS** for speech. Deterministic server-side game logic limits hallucinations.

**Qwen2-VL Fine-tuning** | Transformers, Unsloth, QLoRA

[Kaggle](#)

- Fine-tuned a **7B-parameter vision-language model** with **QLoRA** for memory-efficient training, achieving **80% accuracy** through systematic hyperparameter tuning and an end-to-end data pipeline.

[Hydroharvest](#) | FastAPI, Scikit-learn, Random Forest

- Built for **NASA Space Apps Challenge 2024**. Trained a **Random Forest** regression model for rainfall prediction and deployed it through a **FastAPI** inference endpoint, covering feature engineering through production serving.

[SLM From Scratch](#) | PyTorch, Python

- Implemented a **small language model** from scratch to study **transformer internals**: tokenization, attention, positional encoding, and the training loop, without high-level abstractions.

## Technical Skills

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**AI / ML:** RAG Systems, LangChain, LangGraph, Deep Learning, LLM Fine-tuning, QLoRA, Unsloth, PyTorch

**Data Stores:** Chroma DB, Pinecone, BM25, PostgreSQL, Supabase

**Languages:** Python, TypeScript, JavaScript, SQL, Bash

**Backend & Infrastructure:** FastAPI, Docker, GitHub Actions, CI/CD Pipelines

**Frontend:** React, Next.js, Tailwind CSS, Shadcn, Framer Motion

## Achievements

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- Won **1st Place** at BRAC University Intrachactive 1.0 Hackathon.
- Placed **5th** at Innovation Cohort, BUET Rise, and raised initial funding for our VR product.
- Won the **Best Demo** award at the global HuggingFace and Gradio Build Small Hackathon for [Forgotten Lily](#).