

SAMIM REZA

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EDUCATION

Green University of Bangladesh B.Sc. in Computer Science and Engineering (CGPA: 3.80/4.00)	2022 – 2025
Government Bangabandhu College Higher Secondary Certificate (GPA: 4.75/5.00)	2017 – 2019
S.M. Model Govt. High School Secondary School Certificate (GPA: 5.00/5.00)	2012 – 2017

EXPERIENCE

Senior AI Software Engineer — <i>SloanCode, New York</i> [Live Platform]	May 2026 – Present
– Engineer a live, multi-tenant AI phone receptionist SaaS for New York restaurants and home services – Own the AI voice workflow (OpenAI Realtime, Twilio), FastAPI/Redis backend, Next.js portals, CRM and kitchen flow – Integrated Toast/Square/Clover POS and Stripe; added tenant-scoped roles, MFA and secret scanning	
Software Engineer — <i>Nuhu Labs (Byakaron)</i> [nuhulabs.com]	Aug 2026 – Present
– Shipping the Linux port of Byakaron, a Bangla phonetic keyboard, on the shared Zig engine via its C ABI – IBus/Fcitx5 input method in C, GTK3 app, .deb and Flatpak packaging; released v0.2.0 with Wayland CI	
Founder — <i>Callisa (BanglaBot)</i> [Live] [Code]	Aug 2026 – Present
– AI voice and chat agents for clinics, real estate, home services and e-commerce businesses – Streaming STT → LLM → Azure TTS over Telnyx; web chat, WhatsApp, Messenger, SMS, calendar sync	
Founder — <i>Wasilah</i> [Live] [Code]	Sept 2026 – Present
– Built a Quran habit app (one ayah a day) on Expo/React Native, TypeScript and Supabase – Own the streak engine (timezones, DST, offline reads, clock jumps), offline sync, reminders and guest mode	
Machine Learning Engineer — <i>Brandifies</i>	Dec 2025 – Sept 2026
– Built end-to-end ML pipelines, fine-tuned LLMs, and implemented RAG chatbot systems – Developed predictive models using boosting algorithms	
Robotics Engineer Intern — <i>RoboTech Valley</i>	Jul – Sept 2025
– Designed robotics modules using embedded systems and ROS for autonomous navigation	
Teaching Assistant — <i>Green University of Bangladesh</i>	May – Aug 2025
– Conducted demo classes on C and Data Structures; evaluated exam scripts and prepared grade sheets	

RESEARCH

- **KobitaLM**: Provenance-Aware Evaluation of Adaptation, Retrieval, and Creative Diversity in Bengali Poetry Generation ([Published, IEEE COMPAS 2026](#))
- **BanglaVerb-R**: Explaining Bengali Verb Transitivity Classification through Leakage-Controlled Evaluation ([Published, IEEE COMPAS 2026](#))
- **FracEdge-R**: In the Hazy Laparoscopic Images Fractional-Order Edge Detection Reference-Controlled Assessment ([Submitted](#))
- **IRIS**: Reliability-Gated Label Acceptance and Introspective Instance Selection for Human-in-the-Loop Deep Active Learning under Imperfect Annotators ([Submitted](#))

TECHNICAL SKILLS

Languages:	C, C++, Python, Java, JavaScript, TypeScript, Zig
AI/ML:	PyTorch, TensorFlow, Scikit-learn, LangChain, VectorDB, RAG, LLM, Roboflow
Voice AI:	OpenAI Realtime, Twilio Media Streams, Telnyx, Azure TTS, tool-calling agents, RAG
Web & Mobile:	Django, FastAPI, Next.js, React, React Native, Expo, PostgreSQL, MySQL, Supabase, PWA
Systems & Tools:	Linux, IBus, Fcitx5, GTK3, Git, Docker, Celery, Redis, SQLite, Twilio, Stripe, Meta Graph API, LaTeX, Render, Arduino, Raspberry Pi, Jetson, ESP32, Azure, Digital Ocean

PROJECTS & PLATFORMS

Personal AI Assistant

[Live] [Code]

- LLM-powered chatbot with RAG implementation, deployed at samimreza.me/chat

Wasilah

[Live] [Code]

- Quran habit app around one ayah a day, with a streak engine that survives timezone changes, DST, offline reads and clock jumps (Expo, React Native, Supabase)

WeCare Medical Service App

[Code]

- Offline-first PWA for rural healthcare with AI triage (FastAPI, Ollama/Qwen3-VL, PWA, MySQL)

Bengali Poetry Generator

[Model] [Code]

- Fine-tuned Gemma 2 9B with LoRA & RAG for Bengali poetry generation

IRIS

[Code]

- Human-in-the-loop active learning under noisy annotators; 285 reproducible runs on Fashion-MNIST, BloodMNIST and CIFAR-10 (PyTorch)

Cirrhosis Outcome Prediction

BAIC 2025

- Ensemble classifier over 55 engineered features (XGBoost, LightGBM, CatBoost), 14.5% accuracy gain

TrueDoc

[Code]

- SaaS for digital document attestation in Bangladesh with QR-backed verification, role-based access (citizen/verifier/org), JWT auth, and BDT payment model

GoUp

[Code]

- For Lead Ads automation; syncs pages/forms via Meta API, webhooks, triggers SMS follow-ups with Celery & Redis

COMPETITIVE PROGRAMMING

- **Champion:** Intra Dept Programming Contest 2024
- **3x ICPC Regionalist:** 2022, 2023, 2024
- **Kaggle Competitor:** Active in ML competitions
- **Problem Setter:** Junior Programming Contests
- **Participated:** NCPC 2023, IUPC 2023/2024

ACHIEVEMENTS

- Vice Chancellor's Award for Academic Excellence
- Champion, Inter Dept Programming Contest 2024
- Secured **8th** position in BUBT Artificial Intelligence Conquest in Kaggle
- National IT Quiz Competition Medalist

REFERENCES

Prof. Dr. Md. Saiful Azad

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