

# SAMIM REZA

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## EDUCATION

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

## EXPERIENCE

<b>Robotics Engineer Intern</b> — <i>RoboTech Valley</i>	Jul – Sept 2025
– Designing robotics modules using embedded systems and ROS for autonomous navigation	
<b>Teaching Assistant</b> — <i>Green University of Bangladesh</i>	May – Aug 2025
– Conducting demo classes on C Programming and Data Structures & Evaluate exam scripts and prepare grade sheets	
<b>Programming Trainer</b> — <i>Green University of Bangladesh</i>	Jan – Dec 2025
– Training students for competitive programming; conducted weekly sessions	
<b>Mentor</b> — <i>University Mentorship Program</i>	Jun 2023 – Aug 2025
– Mentored first-year students in programming fundamentals and professional tools	

## RESEARCH Ongoing

- **Denoising Diffusion Probabilistic Models** – Integrating edge detection for enhanced image generation
- **Federated Learning** – Adaptive client selection algorithms for optimal convergence
- **Human-in-the-Loop ML** – Survey on HITL approaches in modern ML systems

## TECHNICAL SKILLS

<b>Languages:</b>	C, C++, Python, Java, JavaScript, PHP
<b>AI/ML:</b>	PyTorch, TensorFlow, Scikit-learn, LangChain, VectorDB, RAG, LLM, Roboflow
<b>Data Science:</b>	Kaggle Competitions, Machine Learning, Data Analysis
<b>Tools &amp; Platforms:</b>	ROS, Git, Docker, LaTeX, Linux, MySQL, Arduino, Raspberry Pi, Jetson, ESP32, Azure, PWA

## OPEN SOURCE PROJECTS

<b>Personal AI Assistant</b> [Live] [Code]	<b>Cirrhosis Outcome Prediction</b> BAIC 2025
– LLM-powered chatbot with RAG implementation	
<b>Bengali Poetry Generator</b> [Model] [Code]	<b>Mars Rover</b> [Code]
– Fine-tuned Gemma 2 9B with LoRA & RAG for Bengali poetry generation	
<b>WeCare Medical Service App</b> [Code]	<b>Animal Introductory System</b> [Code]
– Offline-first PWA for rural healthcare with AI triage (FastAPI, Ollama/Qwen3-VL, PWA, MySQL)	
	<b>Portal Extended</b> [Code]
	– Full-stack web portal (JavaScript/PHP/MySQL)

## COMPETITIVE PROGRAMMING

- **Champion:** Intra Dept Programming Contest 2024
- **3x ICPC Regionalist:** 2022, 2023, 2024
- Around **1000** problems solved across online judges
- **Kaggle Competitor:** Active in ML competitions
- **Problem Setter:** Junior Programming Contests
- **Participated:** NCPC 2023, IUPC 2023/2024

## ACHIEVEMENTS

- Vice Chancellor's and DEAN'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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Green University of Bangladesh  
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