

# 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
<b>Tools &amp; Platforms:</b>	ROS, Git, Docker, LaTeX, Linux, MySQL, Arduino, Raspberry Pi, Jetson, ESP32

## OPEN SOURCE PROJECTS

<b>Personal AI Assistant</b>	[Live] [Code]
– LLM-powered chatbot with RAG implementation	
<b>Mars Rover</b>	[Code]
– ROS-based autonomous navigation system	
<b>Animal Introductory System</b>	[Code]
– Java GUI application with MySQL database	
<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
- **1000+** problems solved across online judges
- **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
- National IT Quiz Competition Medalist

## REFERENCES

**Prof. Dr. Md. Saiful Azad**  
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Green University of Bangladesh  
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