

Munim Thahmid

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EDUCATION

Bangladesh University of Engineering and Technology

B.Sc. in Computer Science and Engineering

CGPA: 3.46 / 4.00

Jan 2022 - May 2026

Dhaka, Bangladesh

RESEARCH INTERESTS

Formal verification

Machine-assisted reasoning

Distributed systems

Software reliability

TECHNICAL SKILLS

Formal methods

TLA+, TLAPS / TLAPM

Programming

Python, C/C++, TypeScript / JavaScript, Bash, SQL

Systems

Linux, Docker, Kubernetes, Git

ML and research

PyTorch, Whisper, XLS-R, scikit-learn, pandas, NumPy, statistical evaluation

LINKS

munimthahmid.github.io

github.com/munimthahmid

linkedin.com/in/munimthahmid

RESEARCH EXPERIENCE

Research Intern

May 2026 - Present

University of Illinois Urbana-Champaign | Advisor: Prof. Tianyin Xu

- Contribute to TLAPS-Bench, a benchmark for evaluating AI systems on completing and constructing machine-checkable TLA+ proofs.
- Study rigorous evaluation of proof-generating agents, including scalable verification, iterative proof improvement, and measurement of correctness and cost.
- Previously developed a reproducible SREGym incident for Kubernetes node conntrack exhaustion to evaluate diagnosis when normal access paths are disrupted.

Undergraduate Researcher

2025 - 2026

BUET | Supervisor: Dr. Sadia Sharmin

- Investigated Bengali phone-like representations across Whisper encoders using speaker-disjoint layer-wise probing.
- Conducted cross-model comparison with XLS-R and robustness analyses, leading to an accepted INTERSPEECH 2026 paper.

SELECTED PUBLICATION

Layer-wise Probing of Whisper's Encoder Representations for Bengali Phone-like Units

Munim Thahmid and Sadia Sharmin

Accepted to INTERSPEECH 2026

ENGINEERING EXPERIENCE

Software Engineer

Oct 2024 - Feb 2026

Yobo AI | Intern, then part-time engineer

- Spent over a year building backend systems, testing infrastructure, and production features for AI voice-agent applications.
- Developed automated Python testing infrastructure that reduced a regression cycle from roughly eight hours to fifteen minutes.