

# Munim Thahmid

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## Education

**Bangladesh University of Engineering and Technology (BUET)**

*B.Sc. in Computer Science and Engineering*

**Jan. 2022 – May 2026**

*Dhaka, Bangladesh*

## Research Interests

**Areas:** Reliable and secure software systems, AI for software engineering, LLMs for code, software reliability and testing, and configuration and deployment correctness

## Publications and Manuscripts

**Munim Thahmid**, Sadia Sharmin. *Interpreting Multilingual Speech Models for Bengali: Cross-Model Probing and Representation-Guided Adaptation*. Manuscript in preparation.

## Selected Research Projects

### ConfigDiffGuard

*Independent Research Project*

- Built a Python CLI that compares old and new vLLM configurations and flags risky changes before deployment to improve configuration and deployment correctness.
- Curated and labeled 36 configuration-sensitive vLLM GitHub issues, distilled them into three reliability-oriented failure families, and implemented YAML/JSON parsing, tracked-parameter diffing, 12 warning rules, and scored risk reports with 5/5 intended evaluation cases passing.

### Bengali Speech Representation Analysis and ASR Adaptation

*BUET Thesis Project*

- Co-authored a research manuscript on Bengali representations in multilingual speech models using FLEURS, Common Voice Bengali, and MMS forced alignment.
- Ran layer-wise probing across Whisper and XLS-R; found intermediate layers strongest for Whisper language separation and XLS-R-300M substantially stronger than tested Whisper variants on Bengali aligned-unit probing, reaching macro-F1 0.6884 in the pilot setup and 0.6565 on a larger 42-utterance subset.

## Industry Experience

### Yobo AI

**Oct. 2024 – Feb. 2026**

*Software Engineer Intern → Software Engineer (Part-time)*

*Remote*

- Built backend systems, testing infrastructure, and production features for AI voice-agent applications; developed an automated Python testing platform that reduced regression cycles from 8 hours to 15 minutes and supported faster, more reliable deployment.

## Technical Skills

**Programming:** Python, C/C++, Java, JavaScript, SQL

**Research and Engineering:** Experiment design, diagnostic evaluation, error analysis, Git, Docker, FastAPI, CI/CD, software testing, LaTeX

**Platforms:** AWS, Google Cloud Platform, PostgreSQL, Redis