

# MD NAYEM UDDIN

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## EDUCATION

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### Arizona State University

Aug 2022 – Present

*Ongoing PhD in Computer Science at School of Computing and Augmented Intelligence*

*Tempe, USA*

Faculty Advisors: Chitta Baral (*Arizona State University*), Eduardo Blanco (*University of Arizona*)

Current CGPA: 4.0 / 4.0 || Credit hours completed: 84 / 84 || Anticipated graduation date: 04/27

## RESEARCH INTERESTS [GOOGLE SCHOLAR]

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Information Extraction, Reasoning, Long-Term Memory, LLM Post-training, Synthetic Data and Weak Supervision.

## RESEARCH PUBLICATIONS

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- [1] “From Recall to Forgetting: Benchmarking Long-Term Memory for Personalized Agents.” **Md Nayem Uddin**, Kumar Shubham, Eduardo Blanco, Chitta Baral, Gengyu Wang. In Findings of the *Association for Computational Linguistics*. (ACL 2026)
- [2] “GuidedSampling: Two-Stage Method for Improving Diversity of LLMs in Inference-Time.” Divij Handa, Mihir Parmar, Aswin RRV, **Md Nayem Uddin**, Hamid Palangi, Chitta Baral. In *The Fourteenth International Conference on Learning Representations*. (ICLR 2026)
- [3] “UnSeenTimeQA: Time-Sensitive Question-Answering Beyond LLMs’ Memorization.” **Md Nayem Uddin**, Amir Saeidi, Divij Handa, Agastya Seth, Tran Cao Son, Eduardo Blanco, Steven Corman, Chitta Baral. In Proceedings of the *Association for Computational Linguistics*. (ACL 2025)
- [4] “BEMEAIE: Moving Beyond Exact Span Match for Event Argument Extraction.” Enfa Rose George, **Md Nayem Uddin**, Oghenevovwe Ikumarijegbe, Daniyal Kashif, Eduardo Blanco, Steven Corman. In Proceedings of the *North American Chapter of the Association for Computational Linguistics: Human Language Technologies*. (NAACL 2025)
- [5] “When “Competency” in Reasoning Opens the Door to Vulnerability: Jailbreaking LLMs via Novel Ciphers.” Divij Handa, Zehua Zhang, Amir Saeidi, Shrinidhi Kumbhar, **Md Nayem Uddin**, Aswin RRV, Chitta Baral. In *NeurIPS 2025 Workshop: Reliable ML from Unreliable Data*. (NeurIPS 2025)
- [6] “ThinkTuning: Instilling Cognitive Reflections without Distillation.” Aswin RRV, Jacob Dineen, Divij Handa, **Md Nayem Uddin**, Mihir Parmar, Chitta Baral, Ben Zhou. In Proceedings of the *Empirical Methods in Natural Language Processing* (EMNLP 2025)
- [7] “Insights into Alignment: Evaluating DPO and its Variants Across Multiple Tasks.” Amir Saeidi, Shivanshu Verma, **Md Nayem Uddin**, Chitta Baral. In Proceedings of *ACL Student Research Workshop*. (ACL SRW 2025)
- [8] “Generating Uncontextualized and Contextualized Questions for Document-Level Event Argument Extraction.” **Md Nayem Uddin**, Enfa Rose George, Eduardo Blanco, Steven Corman. In Proceedings of the *North American Chapter of the Association for Computational Linguistics: Human Language Technologies*. (NAACL 2024)
- [9] “Chaos with Keywords: Exposing Large Language Models Sycophancy to Misleading Keywords and Evaluating Defense Strategies.” Aswin RRV\*, Nemika Tyagi\*, **Md Nayem Uddin\***, Neeraj Varshney, Chitta Baral. In Findings of the *Association for Computational Linguistics*. (ACL 2024)

## PREPRINTS / UNDER REVIEW

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- [1] “LedgerAgent: Structured State for Policy-Adherent Tool-Calling Agents.” **Md Nayem Uddin**, Amir Saeidi, Eduardo Blanco, Chitta Baral. Submitted to the EMNLP 2026. (Under Review)

## PROFESSIONAL EXPERIENCE

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### Microsoft

May 2026 – Present

*Applied Scientist Intern*

*Redmond, WA*

- LLM agents for large-scale system monitoring and automated root cause analysis across distributed services.

### Cohere

Jan 2026 – Apr 2026

*Intern of the Technical Staff*

*San Francisco, CA*

- Implemented continuous learning and performance evaluation mechanisms for workplace automation agents.
- Designed long-term memory systems for tool calling agents to learn from prior experiences.

### Genies

Jun 2025 – Dec 2025

*Research Scientist Intern*

*San Mateo, CA*

- Systematic evaluation framework for LLM-based memory modules. One paper accepted to the ACL 2026.
- Developed a long-term memory management pipeline for AI agents and user personalization.

**Center for Strategic Communication, Arizona State University**

Aug 2022 – June 2025

*Graduate Research Assistant*

*Tempe, AZ*

- Developed a question-answering system to extract event arguments from news articles (focus: weak supervision).
- Led three accepted papers at top NLP conferences (LREC-COLING'24, NAACL'24, NAACL'25, ACL'25).

**Nascenia IT**

Jan 2020 – Jun 2022

*Software Engineer (Machine Learning)*

*Dhaka, Bangladesh*

- Developed five conversational agents (National Digital Service Assistant) for government stakeholders.
- Set up a data acquisition web application for end-to-end machine learning model training using Pytorch.
- Created five domain-specific user intent understanding datasets for Bangla language.

**TECHNICAL SKILLS**

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**Languages:** Python, C, C++, JavaScript, Ruby

**Databases:** MySQL, SQLite, MongoDB

**Web Technologies / Frameworks:** HTML, CSS, Flask, Ruby on Rails, API-Swagger

**ML Frameworks / Packages / Libraries:** Pytorch, Numpy, SciPy, Pandas, Matplotlib, scikit-learn

**Others:** AWS, git, github, Ngnix, Rasa, Apache Superset, Beautiful Soup, Linux, JMeter

**HONORS AND AWARDS**

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- Tinker Research Grant, Thinking Machines Lab (\$5000) 2025
- OpenAI Researcher Access Program (\$1000) 2025
- ASU-GSG Career Development Grant (\$950) 2025
- ASU-SCAI Conference Grant (\$500) 2024
- ASU-GPSA Career Development Grant (\$950), Travel Grant (\$950) 2024
- ASU-Graduate College Travel Grant (\$300) 2024
- Honorable mention at *ACM-ICPC Asia Dhaka Regional Programming Contest* 2017, 2018
- Champion at *Intra NSTU Programming Contest* 2016

**COMMUNITY, MENTORSHIP AND SERVICES**

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- Reviewer: EMNLP 2024, 2025; ACL 2024, 2025, NAACL 2024, 2025
- President at *CSTE CLUB*, Departmental Computing Society 2019
- Problem setter at Intra NSTU PI Day Programming Contest [*43 teams*] 2019
- Workshop Trainer at CSTE Club Competitive Programming Chapter, NSTU [*100+ students*] 2017-19