

Neeladri Bhuiya

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Education

University of Massachusetts Amherst, MS in Computer Science	May 2026
<ul style="list-style-type: none">GPA: 4.0/4.0Relevant courses: Reinforcement Learning, Neural Networks	
National University of Singapore, BS in Computer Science	May 2024

Experience

AI Safety Intern, A10 Networks	June 2025 - August 2025
<ul style="list-style-type: none">Reduced peak memory usage of the existing GCG attack by 50% ($2\times$ memory efficiency), enabling attacks with larger number of prompts.Designed and implemented PLAGUE, a novel agentic multi-turn jailbreak attack framework that improved the attack success rate (ASR) by up to 40 % points compared to the prior SOTA in models like Claude Opus 4.1.Designed an orchestrator to coordinate multiple agents and integrated a RAG-based module for lifelong retrieval of strategies and in-context learning for PLAGUE.Published paper: <i>PLAGUE: Plug-and-play Framework for Lifelong Adaptive Generation of Multi-turn Exploits</i> First Author ICLR 2026	
Extern Graduate Researcher, IBM	Jan 2025 - April 2025
<ul style="list-style-type: none">Led a team of 4 to conduct research on creating a correctness classifier using LLM's uncertainty estimation for code generation under the supervision of Dr. Andrew McCallum and Dr Veronika Thost.Engineered an optimized TokenSAR implementation with Tree-sitter, improving runtime efficiency and boosting correctness prediction accuracy by 15% over uncertainty-based baselines.	
Graduate Researcher, CIIR and IESL	December 2024 - Current
<ul style="list-style-type: none">Conducting research under Dr. Andrew McCallum (IESL) and Dr. Hamed Zamani (CIIR) on leveraging box embeddings for evaluating LLM performance.Engineered scalable training pipelines for boxes, reducing end-to-end runtime by $2\times$ and accelerating experimentation.Developed an nD-to-2D visualization technique for box embeddings, improving interpretability. Also uncovered strong correlation between box volume and instruction complexity.	

Researcher, NUS	August 2023 - May 2024
<ul style="list-style-type: none">Conducted a final year research project under the supervision of Dr. Stefan Winkler and Dr. Viktor Schlegel, leading to a deeper understanding of LLM's performance under strong adversarial attacks.Developed a novel adversarial attack which affects state-of-the-art LLM's performance up to 45%Published paper: <i>Seemingly Plausible Distractors in Multi-Hop Reasoning</i> First Author EMNLP 2024	

Selected Projects

Silica Ranked	Github
<ul style="list-style-type: none">Built a high-performance backend in Rust with PostgreSQL, parsing player logs 24/7 to generate detailed player statistics.Optimized log processing to handle 10,000+ line files in <9 ms, enabling real-time analytics.Developed and deployed an interactive React + Go + Neon frontend with CI/CD pipelines, attracting thousands of global impressions.	

Skills

Languages: Python, Rust, Go, C++, Java, C#, SQL, JavaScript
GenAI: PyTorch, TensorFlow, Hugging Face, scikit-learn, Prompt Engineering
System and Tools: Linux, PostgreSQL, MongoDB, Git, Vim