

EDUCATION	<div>Department of Computer Science, Virginia Tech</div> <div>Ph.D. in Computer Science</div> <div>VA, United States</div> <div>2024 - present</div> <div><ul style="list-style-type: none">Advisor: Dr. Peng GaoResearch area: Application and customization of LLMs to empower knowledge-intensive and complex applications in security and software engineering</div> <div>School of Software Engineering, Beijing Jiaotong University</div> <div>B.E. in Software Engineering</div> <div>Beijing, China</div> <div>2018 - 2022</div>
PUBLICATIONS	<div><div>1. Yutong Cheng, Osama Bajaber, Saimon Tsegai, Dawn Song, Peng Gao. CTINexus: Leveraging Optimized LLM In-Context Learning for Constructing Cybersecurity Knowledge Graphs Under Data Scarcity. <i>arXiv:2410.21060 (Under peer review)</i>, 2024.</div><div>2. Xu, Junjielong and Fu, Qiuai and Zhu, Zhouruixing and Cheng, Yutong and Li, Zhijing and Ma, Yuchi and He, Pinjia. Hue: A user-adaptive parser for hybrid logs. <i>Proceedings of the 31st ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)</i>, 2023.</div></div>
INTERNSHIPS & EXPERIENCE	<div><div>Llama Family Algorithm Developer</div><div>2023.09 - 2023.12</div><div><ul style="list-style-type: none">Fine-tuned Llama2-Chat model with Chinese datasets to enhance Chinese conversational abilities.Integrated LangChain framework to improve model performance in Chinese applications.</div></div> <div><div>AtomEcho Algorithm Developer</div><div>2023.06 - 2023.09</div><div><ul style="list-style-type: none">Developed a framework (AtomTool) for integrating tool utilization skills into LLMs.Implemented API integrations to enhance LLM's tool usage capability, improving LLM accuracy in handling complex API parameter settings.Reduced the hallucination phenomenon by refining prompt design and retrieval methods, improving LLM response accuracy and reliability.</div></div> <div><div>Chinese University of Hong Kong (Shenzhen) Research Assistant</div><div>2022.09-2023.06</div><div><ul style="list-style-type: none">Collaborated with a cloud company to collect and curate log data from multiple departments, enabling comprehensive log analysis.Developed a two-step log grouping algorithm combining coarse- and fine-grained techniques, utilizing a multinomial search tree for efficient template extraction.Designed a template updating mechanism that incorporated human feedback to resolve ambiguous tokens, enhancing overall system accuracy.</div></div> <div><div>Yuewen Group, Tencent Backend Developer</div><div>2020.06 - 2020.09</div><div><ul style="list-style-type: none">Developed dynamic UI customized to user interests, integrating real-time content recommendation statistics.Created responsive framework to adjust interface content based on user click feedback.</div></div>
AWARDS & HONORS	<div><div>Bitshares Fellowship, for smart-contract-related research project</div><div>2024.09</div></div> <div><div>Virginia Tech CS Departmental Travel Grant</div><div>2024.06</div></div> <div><div>CCI SWVA Cyber Innovation Scholarship, for CTI-related research project</div><div>2024.03</div></div>
PROFESSIONAL SERVICES	<div><div>Student Organizer, for the 2024 DMV Security Workshop.</div></div> <div><div>External Reviewer, for NDSS 2025, ACM CCS 2024, DLSP 2024, TOPS 2023, IEEE EuroS&P 2024</div></div>