

EDUCATION	Carnegie Mellon University	Pittsburgh, PA, USA
	<i>Ph.D. in Software Engineering</i> <ul style="list-style-type: none"> • Advisor: Prof. Christian Kästner and Dr. Chris Timperley • Focus: Safety and security for ML-enabled systems 	Aug. 2024 - Present
	Tsinghua University	Beijing, China
	<i>B.Eng. in Computer Science and B.Ec. in Economics & Finance</i> <ul style="list-style-type: none"> • GPA: 3.91/4.00, Rank: 2/12. • Thesis (Honored): A Reinforcement Learning Framework for Training and Testing in Asset Portfolio Optimization • Advisor: Prof. Maosong Sun and Prof. Junliang Xing 	Sept. 2020 - July 2024
PUBLICATIONS	<ol style="list-style-type: none"> 1. Yining Hong, Christopher S. Timperley, Christian Kästner. From Hazard Identification to Controller Design: Proactive and LLM-Supported Safety Engineering for ML-Powered Systems. In <i>Proceedings of the International Conference on AI Engineering - Software Engineering for AI (CAIN)</i>, April 2025. 2. Chenyang Yang, Yining Hong, Grace Lewis, Tongshuang Wu, Christian Kästner. “What Is Wrong with My Model? Identifying Systematic Problems with Semantic Data Slicing”. In <i>Proceedings of the 39th IEEE/ACM International Conference on Automated Software Engineering (ASE)</i>, Los Alamitos, CA: IEEE Computer Society, November 2024. 3. Yining Hong, Fanchao Qi, Maosong Sun. “Two Heads Are Better Than One: Exploiting Both Sequence and Graph Models in AMR-To-Text Generation”. 	
INTERNSHIPS	Advanced Micro Devices, Inc. (AMD) Beijing, China	Jan. 2024 - June 2024
	<ul style="list-style-type: none"> • Accelerate FPGA-based deep learning compilers. 	
	Kuangshi Technology Co., Ltd. (Megvii) Beijing, China	Sept. 2023 - Dec. 2023
	<ul style="list-style-type: none"> • Integrate ML models into autonomous driving systems 	
AWARDS AND HONORS	<ul style="list-style-type: none"> • Outstanding Graduate, CST Department, Tsinghua University July 2024 • Comprehensive Excellence Scholarship (top 10%), Tsinghua university Nov. 2023 • Citadel Securities Scholarship, Citadel Securities, Dec. 2022 • Comprehensive Excellence Scholarship (top 10%), Tsinghua university Nov. 2022 • Academic Excellence Scholarship (top 30%), Tsinghua university Nov. 2021 • Sports Excellence Scholarship, Tsinghua university Nov. 2021 • First Prize, National Olympiad in Informatics in Provinces Nov.2018 • First Prize, National Olympiad in Informatics in Provinces Nov.2017 	
SKILLS	Languages: Chinese, English. Programming: C/C++, Python, Javascript/Typescript, Verilog/SystemVerilog, Solidity, Rust.	
TEACHING EXPERIENCE	Center for Student Learning and Development, Tsinghua University	Beijing, China
	<i>Volunteer Teaching Assistant (Outstanding Level)</i> <ul style="list-style-type: none"> • Offered drop-in tutoring for computer science and finance courses. 	Mar. 2022 - July 2024