## Yuntong Zhang

Contact Information	PLSE Lab (COM3 02-20) School of Computing National University of Singapore	<i>E-mail:</i> yuntong@comp.nus.edu.sg <i>WWW:</i> https://yuntongzhang.github.	io/	
Research Interests	automatic programming, program repair, program analysis, software security, software testing			
Education	<ul> <li>National University of Singapore, Singapore</li> <li>Ph.D. Candidate, Computer Science, August 2021 - present</li> <li>Topic: Role of Specification in Automatic Programming</li> <li>Advisor: Prof. Abhik Roychoudhury</li> <li>Bachelor of Computing in Computer Science, 2017-2021</li> </ul>			
	<ul> <li>GPA: 4.9/5.0</li> <li>Dean's List (AY2018/2019 Sem1, AY2019/2020 Sem2, AY2020/2021 Sem1).</li> </ul>			
Publications	SpecRover: Code Intent Extract Haifeng Ruan <sup>*</sup> , Yuntong Zhang <sup>*</sup> , Abh 47th International Conference on Soft	ik Roychoudhury. (*Joint first authors orde	ICSE'25 red alphabetically)	
	EffFix: Efficient and Effective Repair of Pointer Manipulating Programs. [link] TOSEM'25 Yuntong Zhang, Andreea Costea, Ridwan Shariffdeen, Davin McCall, Abhik Roychoudhury. ACM Transactions on Software Engineering and Methodology (TOSEM). 2025.			
	AutoCodeRover: Autonomous Program Improvement. [link]IYuntong Zhang, Haifeng Ruan, Zhiyu Fan, and Abhik Roychoudhury.Proceedings of the 33rd ACM SIGSOFT International Symposium on Software Testing an (ISSTA). 2024.		ISSTA'24 esting and Analysis	
	<b>Program Vulnerability Repair via</b> <u>Yuntong Zhang</u> , Xiang Gao, Gregory Proceedings of the 31st ACM SIGSOF (ISSTA). 2022.		ISSTA'22 esting and Analysis	
	Hardening Binaries against More Gregory J. Duck, Yuntong Zhang, and Proceedings of the Seventeenth Europ		<b>EuroSys'22</b> roSys). 2022.	
Preprints	<b>Program Repair by Fuzzing over</b> <u>Yuntong Zhang</u> , Ridwan Shariffdeen,	Patch and Input Space. [link] Gregory J. Duck, Jiaqi Tan, Abhik Roycho	arXiv'23 budhury.	
Honors and Awards	Research Achievement Award, School of Computing, NUS, AY2022/2023 Semester 1 Outstanding Undergraduate Researcher Prize, National University of Singapore, 2021			
Teaching Experience	National University of Singapore, SingaporeTeaching AssistantAugust, 2018 - May 2020Prepared material and conducted tutorial/lab sessions for courses in School of Computing.• CS2040S (Data Structures and Algorithms), AY2019/2020 Semester 2• CS2106 (Introduction to Operating Systems), AY2019/2020 Semester 2			

- CS1010S (Programming Methodology), AY2019/2020 Semester 1
- CS1101S (Programming Methodology), AY2018/2019 Semester 1

Industry	<b>Oracle Labs</b> , Australia (remote)	
Experience	Research Intern	Sep, $2024$ - present
	Working on program repair.	

Sea Group (Shopee), SingaporeSoftware Engineering InternWorked in the back-end engineering team on server monitoring system.

Yitu Tech, Singapore Research and Development Intern Worked on the internal AI office assistant system.

December, 2018 - March, 2019