

QI LING

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1857 Shirley LN Apt. A1, MI 48105

EDUCATION

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| <ul style="list-style-type: none">• University of Michigan
Bachelor's Degree in CS
College of Engineering | Expected graduation date: 2024
Overall GPA: 3.88/4 |
| <ul style="list-style-type: none">• Shanghai Jiao Tong University
Bachelor's Degree in ECE
UM-SJTU Joint Institute | Expected graduation date: 2024
Overall GPA: 3.79/4 |

HONOR

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| • Dean's Honor List | 2023 |
| • Jackson and Murial Lum Scholarship | 2022 |
| • SJTU Undergraduate Excellence Scholarship | 2021 |

PUBLICATIONS

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| <ul style="list-style-type: none">• Accurate Detection and Assessment of Speculative Gadgets
Full paper in submission to ASPLOS'24
Abstract accepted by MICRO'23 SRC
Lead author: Qi Ling | August 2023 |
| <ul style="list-style-type: none">• Towards Fine-Grained, High-Coverage Internet Monitoring at Scale
Accepted by APNet'23
Second author: Qi Ling | June 2023 |

RESEARCH EXPERIENCE

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| <ul style="list-style-type: none">• EFESLAB, University of Michigan
Advisors: Shuwen Deng and Baris Kasikci
Evaluating and assessing speculative gadgets in various applications and linux kernel.<ul style="list-style-type: none">– Identified one key limitation of all state-of-the-art speculative vulnerabilities detectors – lack of exploitability evaluation.– Characterized the exploitability of vulnerabilities with two metrics.– Developed an LLVM compiler pass which instrumented a program to allow for runtime measurement of all vulnerabilities' exploitability.– Reduced the false positive rates of state-of-the-art detectors by up to 53%. | January 2023 - August 2023 |
| <ul style="list-style-type: none">• Network Measurement and System Lab, SJTU
Advisor: Yibo Pi
Towards find-grained, high-coverage Internet monitoring at scale.<ul style="list-style-type: none">– Developed a latency measurement module based on the ultra-fast large-scale network scanning tool Zmap.– Studied limitations of conventional Internet monitoring strategies in accuracy and coverage.– Carried out large-scale experiments and proved the superiority of our proposed Internet monitoring strategy. | August 2021 - August 2022 |