

Ding Guozhen

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EDUCATION BACKGROUND

University of Toronto St. George, Canada

09/2019-06/2024

BASc - Computer Engineering (In progress)

cGPA: 3.98

WORKING EXPERIENCE

Rocscience Inc., Toronto, ON, Canada

05/2021 - 08/2021

Software Developer Intern

- Developed an easy-to-use, zero-installment web 3D-project review application
- Analyzed the extracted file format from RS3(i.e. the CAD software sold by Rocscience)
- Adapted Three.js framework to the internal file format generated by RS3

Intel Programmable Solutions Group, Toronto, ON, Canada

05/2022 - 09/2023

Software Engineer Intern

- Enhanced Intel's PTC (Power & Thermal Calculator) infrastructure to be more efficient for developers
- Implemented test infrastructure to increase the coverage for the overall codebase
- Advanced Intel's Quartus Power Analyzer by bringing up new device support

Toronto Systems Security Lab

05/2021 - Until Now

Research Assistant

- Enhanced the ZobmieFuzz framework by supporting buffer content manipulation
- Developed a standalone C/S application fuzzer by fuzzing the buffer at runtime using LibAFL

SKILL STACK

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|-------------------------|-------------------|---------------------|
| • C/C++/C# | • Python2/Python3 | • Altium PCB Design |
| • LLVM/Clang | • ARMv7 Assembly | • Git/Perforce |
| • Verilog/SystemVerilog | • Linux/UNIX | • Rust |
| • JavaScript | • OpenGL/WebGL | |

PROJECTS

Individual projects:

- An optimized Fuzzer targeted to the applications using stateful network protocol based on LLVM and AFL
- Reproduction of Learning to Predict 3D Objects with an Interpolation-based Differentiable Render

Group Projects

- Smart Door Lock(with RSA algorithm) implemented on DE1-SoC system with UART peripherals
- A fishing game(with PS/2 and VGA I/O) implement on DE1-SoC system (Based on ARMv7)
- A C++ GUI Map application using OpenStreetMap and ezgl.

ACADEMIC SCHOLARSHIP & COMPETITIONS

Academic scholarships:

- 05/2021 Edith Grace Buchan Undergraduate Research Fellowship
- 10/2020 Edward S Rogers Sr Department of ECE Top Student Award at University of Toronto
- 10/2020 The Wallberg Undergraduate Scholarships at University of Toronto
- 01/2020 2019-2020 Dean List of ECE at University of Toronto

Competitions attended:

- (Member of Team A*0*E) 4th Place at Las Vegas - DEFCON 27
- Sixth Place in the MEEPWN CTF Information Security Contest World Final 2018

ADDITIONAL SKILLS AND EXTRACURRICULAR ACTIVITIES

LANGUAGES: Mandarin Chinese (Native), English (IELTS 7.0)