

Lucas Biery

Bieryl@rpi.edu — (727) 403-3112

github.com/Tiecoon

Work Experience

Advanced Technology Laboratories Intern *Lockheed Martin* May 2018 – August 2018

Developed a network proxy for obscuring traffic inside of various protocols to avoid detection

Beach Rentals *National WaterSports – Clearwater Beach* May 2017 – August 2017

Rented and sold umbrellas, and helped customers with jet ski rentals

Education

Rensselaer Polytechnic Institute

August 2016 – December 2019

Bachelor of Computer Science

(Expected)

Projects

B7 github.com/Tiecoon/B7

An open source rewrite of an internal RPISEC tool

Written in rust to perform side channel attacks on certain executables

Reasons about program input validation using the instruction count of many executions

BBS Project for program analysis class

Implement a program constraint extractor using Binary Ninjas MLIL in SSA form

Produces SMT-LIB formatted constraints on variables to reach a certain point in a program

Magic Mirror github.com/MrLever/MagicMirror

A summer project with a friend to collect info from APIs we want and display on a monitor powered by a Raspberry Pi, using HTML CSS and JavaScript.

Interests

Reverse engineering, binary exploitation, hardware hacking

System administration, software development

Languages

C, C++, Rust, Python, Go, JavaScript, \LaTeX

Activities

Member and current System Administrator of RPISEC - RPI Computer Security Club

– Compete in CTFs and help teach skills at weekly meetings

– Work on rewriting RPISEC infrastructure to use modern provisioning tools, such as ansible

– Help orchestrate infrastructure during meetings and internal CTFs

Participate in wargames in my spare time

– Some wargames I participate in are reversing.kr, Microcorruption, pwnable.kr, and OverTheWire

– Comptia A+ and Security+ certified