

# BRETT HUBER

## Computing Security Student

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## OBJECTIVE

To obtain a Computing Security or Software Development co-op and first-hand experience in the field. Available starting May 2023.

## PROJECTS

### System Administration Scripts

A set of python scripts that would assist in system administration:

September 2022 – Ongoing

- Two scripts (Windows & Linux) that utilize a user-friendly command line menu designed to test network connectivity to specific IP addresses, derive the default gateway from the system, and use ANSI color codes for readability
- A program designed to produce a random generated password that meets all the requirements of a strong password

### Homemade Digispark Rubber Ducky

A USB stick that runs a specified script when plugged into a computer:

June 2022 – Ongoing

- Utilizes a breadboard to flash Arduino ISP software onto ATtiny85 microcontroller
- Wrote Ducky & Digispark scripts to disable Windows Defender firewall
- Soldered resistors, diodes, USB type-A header, and the microcontroller to a PCB board using jumper wires
- Designing a 3D-printed case in Autodesk Fusion 360 software

### ReactJS Personal Website

A ReactJS portfolio website to showcase skills and projects:

May 2022 – September 2022

- URL: brettahuber.com
- Uses HTML & CSS to stylize the layout and presentation of the website
- Employs components and JavaScript to construct the functionality of individual pages
- Website will alter form to accommodate different screen sizes, including mobile devices
- Contains separate home, projects, about, and resume pages
- Implements OKD & Docker containerization to host the website with the domain

### Multi-Type Python Keylogger

A keylogger that reports key logs at a set time interval:

February 2022 – April 2022

- Program can be set to one of six possible report types: the creation of a file, an email, an SMS text, a Discord channel, a Slack channel, or a Skype group chat
- Employs TLS and SMTP protocols to ensure secure communication
- Utilizes Discord web integrations and python requests as well as Slack and Discord bots

## EXPERIENCE

### Mail / Package Handler

RIT Hub Print / Postal Service

August 2022 – Ongoing

Rochester, NY

- Responsible for processing and organizing hundreds of packages with accuracy and efficiency
- Utilizing the STAR REZ system and customer service skills to efficiently ensure the proper provision of packages to students

## EDUCATION

B.S. / M.S. in Computing Security

Rochester Institute of Technology

August 2021 - May 2025

GPA: 3.61

Dean's List: Fall 2021 - Spring 2022

RIT Recognition / Presidential Scholar

## SKILLS

### Programming Languages:

Python Java HTML CSS JavaScript  
SQL C \* Digispark/Ducky Scripts LaTeX

### Tools & Technologies:

Github/Git WireShark VS Code MySQL  
ReactJs VMware Workstation Pro Nmap  
Powershell Cisco IOS PuTTY Discord  
Adobe Photoshop Microsoft Suite Slack

### Operating Systems:

Microsoft Windows Kali Linux Ubuntu Linux

## COURSEWORK

- Introduction to Cybersecurity
- Software Development Problem-Solving I & II (Python & Java)
- Routing and Switching
- Introduction to Web Design
- System Administration
- Programming for Information Security
- Databases & Data Modeling
- Cybersecurity Policy & Law

## EXTRACURRICULARS

- Computer Science House:
  - Completed majors projects and attending weekly meetings, hackathons, and numerous technical seminars
- RITSEC:
  - Attending weekly cybersecurity meetings and interest groups, including Contagion (CTFs)
- TryHackMe
- Boy Scout Troop 159 & Venture Crew 289
- Fencing Club
- Curling Club

## ACHIEVEMENTS

- MTA: Introduction to Programming Using Java
- Eagle Scout
- BSA Order of the Arrow - Brotherhood