

Rachel Rockenfeller

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Education

Bachelor of Arts in Computer Science,
University of Colorado Boulder

Expected Graduation: Spring 2020
GPA: 3.57

Technical Experience

- May 2019-February 2020: QA Intern at RiskBand/ Wearable Technologies.
 - In this role, I was responsible for maintaining, writing, and testing manual test cases on the RiskBand product and its website. We used TestLink as our testing platform.
 - Automation: At the end of my internship, I began helping with automation of Python test scripts. Our test framework had been created by one of the QA team members to which we would add or update as needed.

Projects

- I designed a simple website and then hacked it using Client-Side Validation attacks, simple XSS attacks, and a CSRF attack. I used MySQL for the database, PHP for the server-side scripting language, and HTML and CSS for the front end. It was hosted on biz.nf.
- I created a Python script to provide a statistical analysis that calculated how likely any given value, x, would be in converting an encrypted string of characters into an English message. This was built off the principles of a Caesar Cipher.
- I was involved in a group project implementing object-oriented structures. My part in the designing of the website was implementing HTML and CSS.
- School project that used Priority Queues and sorting algorithms to simulate a hospital emergency room.
- School project that used graphs to mimic safe and efficient patterns of movement from one destination to the next similar to today's shipping companies.

Links:

- kermitthefish.c1.biz/login.php
- <https://github.com/RRock615>

Technical Skills

- | | | |
|----------|--------------|-------------------|
| • Python | • CSS | • Vim |
| • C++ | • PHP | • Unix Commands |
| • Java | • MySQL | • Shell Scripting |
| • Scala | • PostgreSQL | • GitHub |
| • HTML | | |

Classes

Data Structures, Algorithms, Object-Oriented Programming, Software Development, Database Systems, Data Science, Computer Systems, Intro to Cyber Security, Human Controller Interaction, and Principles of Programming Languages.

Other Work Experience

- 2017-present: headguard for the City of Golden
- 2015-present: lifeguard/swim instructor for the City of Golden

Other Works

- 2016: research assistance helping a teacher research ancient -16th century coins
- 2016: published poem "Tree of Time" – Red Rocks Community College
- 2014: published paper "Ethical Eats" – Red Rocks Community College
- 2014: attended an academic conference to speak on paper, "Ethical Eats"

Hobbies

- Hiking, climbing, running, skiing, swimming, and drawing