

ADRIAN GABALES

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EDUCATION

- **Western Washington University** Bellingham, WA
Bachelor of Science in Computer Science *Sep. 2018 – Expected Mar. 2022*

EXPERIENCE

- **WWU** Bellingham, WA
Research Assistant *Sep. 2020 - Ongoing*
 - **Physically Unclonable Functions (PUF):**
 - * Worked with a variety of PUFs such as Arbiter, XOR-Arbiter, Feed-Forward and Crossfeed PUFs.
 - * Used NN model to train on learning the overall security of PUFs.
 - * Wrote scripts to categorize, test and compare data between the security of different types of PUFs.

PROJECTS

- **Lightbulb** *Jan. 2020 - Ongoing*
Python, Flask, HTML/CSS, Javascript, Jinja2, SQLAlchemy, jQuery, PostgreSQL
 - Online Web Assessment tool for instructors.
 - Utilized object relational mapper SQLAlchemy to connect Python and PostgreSQL
 - Integrated backend data with Chart.js to create graph visualizations on student responses.
 - Utilized Bootstrap for webpage needs and connected server side processing with the usage of AJAX for server side processing.
- **Youtube Playlist to Spotify Playlist Converter** *Aug. 2020 - Sep. 2020*
Python, Youtube API, Spotify API, Spotipy
 - Processes youtube playlist information and converts it to a playlist in Spotify.
 - Utilized Spotipy Python Library to gain access to the Spotify Web API.
 - Utilized both Youtube and Spotify API for transferring playlist information between the two APIs.
 - Parsed through the data given by Youtube's API in order to feed into the Spotify API.
- **Microshell** *Mar. 2020 - Jun. 2020*
C
 - A simple shell created in C that is capable of processing common shell commands.
 - Implemented common shell commands like cd, ls, pipes, processing scripts, and signal processing.
- **Deadwood** *Sep. 2020 - Dec. 2020*
Java, JavaFX
 - Implementation of the Deadwood card game in Java.
 - Utilized Java for creating the functionality and integrated JavaFX for the graphical user interface aspect of the game.

SKILLS

- **Programming Languages:** Python, Java, C/C++, Javascript
- **Databases:** MySQL, SQLite, PostgreSQL
- **Technologies:** Numpy, Pandas, Seaborn, React, SQLAlchemy, Flask, Chart.js, Bootstrap, HTML/CSS, PyTorch, jQuery
- **Developer Tools:** VS Code, Vim, Git

INTERESTS AND ACTIVITIES

- WWU Open Source Club
- WWU ACM
- WWU FASA (Filipino American Student Association)