

# ADRIAN GABALES

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<https://adrian-23.github.io/agabales/>

## SKILLS

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- **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

## EXPERIENCE

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- **WWU** Bellingham, WA  
*Research Assistant* *Sep. 2020 - Jun. 2022*
  - **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 test and compare data between the security of different types of PUFs.

## PROJECTS

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- **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 - Ongoing*  
*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 - Ongoing*  
*Java, JavaFX*
  - Implementation of the Deadwood card game in Java.
  - Utilized Java utilized for creating the functionality and integrated JavaFX for the graphical user interface aspect of the game.

## EDUCATION

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

## INTERESTS AND ACTIVITIES

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