

Adrien Rozario

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EDUCATION

Information Science with Data Science Minor, University of Maryland, College Park, MD

Expected May 2026

PERSONAL PROJECTS

- Automated Data Entry Role* Spring 2024
- Integrated BeautifulSoup to scrape details about San Francisco rental listings from a static cloned Zillow web page. The link, address, and price for each rental listing are stored in lists and inputted into a new Google form each time using Selenium. The program then submits the form and all results are compiled into Google Sheets.
- Automated Amazon Price Checker* Spring 2024
- Coded a program that checks the price of a given Amazon product via its value with BeautifulSoup. Using the SMTP Python library, the program sends an email to the user if the price drops below their provided target price.
- Musical Time Machine* Spring 2024
- Compiled a Spotify playlist out of Billboard's Hot 100 songs during a date provided by the user. Utilized the BeautifulSoup Python package to scrape the song titles from Billboard's list in that given year, then Spotify's developer dashboard to create an app. The Spotify Python library enabled authentication, searching the songs from the Billboard list, and adding them to a new playlist.
- Trivia Quiz App* Spring 2024
- Combined different pieces of data from an open trivia database API to create a quiz app, using tkinter and classes for the complex user interface. The program keeps track of the user's score as well as saving the user's score and completed questions until the trivia is finished.
- Flash Card App* Winter 2023
- Implemented a flash card app in Python using Pandas to manage a csv file containing French words and their respective English translation, as well as tkinter for the flash card user interface. After 3 seconds, the card flips if the user doesn't know the word. If they do, the word won't show up in the flashcard deck again and that information is saved each time the app is opened.
- Password Manager* Winter 2023
- Designed a password manager in Python using tkinter to store and generate passwords alongside their respective email and website information. The data is then copied onto the user's clipboard and added to a json file so it is safe and locally accessible.
- Portfolio Website* Summer 2023
- Coded a fully functional website using HTML, CSS, and JavaScript on Visual Studio Code and published it on GitHub Pages. The website is a portfolio with highlights from my technical resume displayed in a neat, minimalistic format easy to navigate by section. There is a project page with code snippets and a contact section.

CLASS PROJECTS

- IT Job Postings Database, INST 327* Spring 2024-now
- Applied relational database design concepts, methods, and tools to clean an IT job postings dataset and produce a database with SQL queries. The logical design explores the relationships between job posting attributes that job seekers would focus on as they determine which jobs they should apply to. Thoroughly reported the development process as it was completed with a team.
- SafeTeal App Design, INST 311* Winter 2023
- Collaborated with a group to design an app in Figma that allows the user to have an anonymous account, view, and post reports of sexual assault, trafficking, and inappropriate behavior in the user's provided area. The goal is to promote public safety and awareness during travels and commutes. The app applies information architecture and metadata properties to optimize search and user experience.
- Statistical Computations, STAT400* Fall 2023
- Utilized R to simulate uniform and exponential distributions, display normality plots with functions, calculate minimum likelihood estimators and confidence intervals. External and built-in data sets were used to perform such statistical operations and observations.
- Orders Processor, CMSC 132* Spring 2023
- Developed a data structure system that receives customers orders and generates a report of each order in the form of files. The data is processed utilizing threads and multi-threads to perform multitasking and reduce time complexity. It is then sorted and a summary of all the information is displayed.

- Interest Calculator, CMSC 132* Spring 2023
- Created an interest calculator that allows user inputs, has functional computational buttons, and displays the calculated interests for a given amount of years accordingly using JavaFX and GUI.
- Video Manager Program, CMSC 132* Spring 2023
- Improved a system that allows a user to add videos, create playlists, and generate HTML for playlists by exploring inheritance structures and file reading.
- Media Rental Manager, CMSC 131* Fall 2022
- Implemented a program using interfaces and inheriting classes allowing a user to rent movies and music albums and receive them via email. The system obtained data accounting for limited plans, rental and removal queues, processing requests, as well as media searches and returns.
- Photo Manager, CMSC 131* Fall 2022
- Utilized arraylist methods to define a system that keeps track of photos; photos that are added, removed, and loaded, finding photos in the database, comments, sorted, and creating an HTML page to display them.

EXTRACURRICULARS

- The Next Best NFL Team, Smith Analytics Consortium's 5th Annual Datathon* Spring 2024
- Participated in a data-focused competition with a 7-member team to learn about consulting with Deloitte employees and come up with the best options for the NFL's new team. Together we utilized Google Colab and Tableau to provide data visualizations and analyze what cities are the best options to place a team, business strategy to estimate revenue /costs and develop a promotional plan, and presentation skills to pitch the idea.
- EveryGrain Website, Kode with Klossy* Summer 2023
- Collaborated with a team to publish a user-friendly interactive website on Canva that serves as an informative collection of statistics and data. The data sets were cleaned and displayed utilizing a multitude of packages in Python and SQL coded in Google Colab.
- Lemonaid, BITCAMP* Spring 2023
- Worked efficiently with a team to develop a website and app that promotes lasting, healthy relationships with nutrition and the body. Offers the user personalized vitamin and water gamified reminders, earning points for timeliness and consistency. Enables the user to track their progress and unlock rewards like discounts at health-conscious stores and restaurants.
 - Utilized HTML, CSS, and Javascript on repl.it to create a basic website, including a Java API for a Chat GPT feature for an interactive experience. Utilized Thunkable to create an app with buttons allowing the user to input their symptoms and receive information only from trustworthy websites, set reminders to take supplements and water, and more.
- ShellTer, TECHNICA* Fall 2022
- Worked efficiently with a team to develop a website and app that serves as a platform for a campus community to communicate and navigate to safety quickly and effectively.
 - Utilized HTML, CSS, and Javascript on repl.it to create a basic website, including a Java API for a map to track location. Utilized Thunkable to create an app with buttons allowing the user to view reports of incidents in an area, report their own incident, or validate an incident they witnessed.

SKILLS

Computers: ASUS, Lenovo, Windows OS

Softwares: Microsoft Office 365, Eclipse, PyCharm, Matlab, MySQL Workbench, R Studio, Visual Studio Code

Languages: C++, HTML, CSS, JavaScript, Java, Python, SQL, R

EXPERIENCE

- Service Desk Assistant* 2023-now
- Supporting the operation of the EIT Computing Service Desk by conducting a variety of logistics and housekeeping tasks, preparing outdated computing hardware for recycling with Terrapin Trader, tidying and organizing the Computing Service Desk and its appending physical spaces, inventory management, and testing electronic devices for efficiency.

Tutor 2021-2022

- Worked as a tutor in a Writing Center to provide a welcoming environment and give one-on-one attention to students. Analyzed and advised high school students, from freshmen to seniors, to improve their writing style—focusing on coherent, cohesive, and formal writing.