**Edward Xiao**

301-640-0206 | [Portfolio](http://edwardx29.github.io/EdPortfolio) | [LinkedIn](https://www.linkedin.com/in/edward-xiao-986b97248/) | [Github](http://github.com/edwardx29) | edwardxiao29@gmail.com

***EDUCATION***

**University of Maryland: College Park (EGD 2025)**

Bachelor of Science in Computer Science

*Interdisciplinary Business Honors College*

***LANGUAGES AND TECHNOLOGIES***

* Python, HTML, CSS, Javascript, Typescript, Java, Perl, Bash, SQL
* Django, Flask, FastAPI, React, AstroJS, ViteJS, Bootstrap, PostgreSQL, MySQL, Heroku, Git, Linux

***EXPERIENCE***

**Python Developer |** [**MoCoCovid.com**](http://mococovid.com)Mar 2021 – Feb 2022

* Delivered full stack LAMP web app for COVID-19 newsletter. **400+** weekly newsletter subscribers..
* [**Recognized**](https://mocoshow.com/blog/new-covid-19-newsletter-developed-by-northwest-high-school-juniors/)by county media and [**interviewed**](https://www.wusa9.com/article/entertainment/television/programs/q-and-a/montgomery-county-high-schoolers-create-free-covid-newsletter-coronavirus-vaccine-appointment-data/65-48ef966d-da84-4637-af5a-034412891fb1) by regional television station **WUSA9**.
* Scheduled backend Python scripts for data collection, graph creation, and email distribution on cron
* Gathered daily local coronavirus news headlines with News APIs.

**Chess Teacher | Hope Chinese School: Gaithersburg** Sept 2019 – May 2020

* Taught chess students (ages 5-13) the fundamentals of chess strategy and tournament preparation.
* Employed Mandarin to facilitate cordial interactions between students, parents, and administration.

***PROJECTS***

**Pop Music Research Project (Python, SciPy, Matplotlib, NLTK, APIs) |** [**Github**](https://github.com/EdwardX29/MusicMeta_DataAnalysis) **|** [**Presentation**](https://drive.google.com/file/d/1O3GDfK4pVOHF6eLAF9Fg8hFujwIiqEBQ/view)

* Gathered **9000+** pop songs from **2 decades** using Billboard API
* Preprocessed lyrics before comparing lyrical diversity and valence with **Natural Language Processing**
* Analyzed audio features data from Spotify API with statistical tests

**University Confessions Web App (Django, Bootstrap, PostgreSQL) |** [**Website**](https://umd-confessions.herokuapp.com)

* Full stack web app anonymous confession making; Deployed to Heroku with PSQL database.
* Utilized UMD’s Central Authorization System (**CAS**) for Single Sign-On (**SSO**) with Django auth.
* **CRUD functionality** for confessional messages, questions, and comments.

**Prom Matchmaking Website (Django, Bootstrap, PostgreSQL, Javascript) |** [**Website**](https://nwprom.herokuapp.com)

* Prototyped and launched a web app, helping **100+** seniors match with each other before prom night.
* Interfaced with Google Single Sign-On Login system, providing secure user authentication.

**Spotify Higher Or Lower Web Game (React, Typescript, Vitejs, CSS) |** [**Game**](https://edwardx29.github.io/spotify-higher-lower/)

* Web game testing user’s musical ear for 5 different musical aspects
* Preloaded app with musical aspects data of **5000+ Spotify songs**
* Leveraged CSS animations to create smooth game transitions

**Google Doc Downloader (Flask, Bootstrap, MySQL) |** [**Website**](http://bypassgoogle.pythonanywhere.com)

* Allow users to bypass view-only documents in the Google Suite
* Employs web scraping and file conversion for users to download files as .csv and .docx