Edward Xiao

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EDUCATION

University of Maryland: College Park (EGD 2025)
Bachelor of Science in Computer Science
Interdisciplinary Business Honors College

EXPERIENCE

Python Developer | [MoCoCovid.com](#)   Mar 2021 – Feb 2022
- Delivered full stack LAMP web app for COVID-19 newsletter. **400+** weekly newsletter subscribers.
- **[Recognized](#)** by county media and **[interviewed](#)** 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](#) | [Presentation](#)
- 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 (t-test, z-test)

University Confessions Web App (Django, Bootstrap, PostgreSQL) | [Website](#)
- 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](#)
- 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](#)
- 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](#)
- 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

LANGUAGES AND TECHNOLOGIES

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