Devin Li

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EDUCATION

CUNY Hunter College | Bachelor of Arts in Computer Science | GPA: 3.63/4.0 — Expected May 2023
Relevant courses: Data Structures & Algorithms, Computer Architecture, Data Science

WORK EXPERIENCE

The Golden House - Full Stack Engineer Intern ([Website](#)) — Feb. 2022 - Present
- Engineered a full stack application to host a leaderboard displaying the achievements of 600+ users
- Designed scalable MongoDB schemas to accurately store user entries and character records
- Implemented REST APIs using Mongoose queries for data retrieval and automated user submissions
- Built a data migration script to migrate 700+ entries from tablepress spreadsheets into production
- Created a user interface to allow our moderation team to approve and modify submissions effectively
- Performed a database backfill to reduce the runtime of an aggregation query by ~60%

CUNY Hunter College - Undergraduate Teaching Assistant — Aug. 2022 - Present
- Tutoring concepts of advanced data structures & algorithms to computer science majors
- Held office hours for tutoring, debugging, and practicing technical interviews
- Regularly answered questions and concerns in classroom discussion boards

PERSONAL PROJECTS

Katsudon Leetcode Leaderboard - [Server](#) | [Chrome Extension](#) | [Website](#) — Aug. 2022 - Present
- Engineered a social platform for users to compare LeetCode solutions with friends
- Built a server and utilizing Mongoose aggregation queries, and an user interface using ReactJS and CSS
- Created and published a chrome extension to automate solution submissions for authorized users

Katsudon Discord Bot - [Server](#) | [Discord Bot](#) — Jul. 2022 - Present
- Created a Discord Bot to automatically store new messages into a local PostgreSQL database
- Implemented endpoints and designed database schemas to store messages utilizing table joins
- Exploring machine learning algorithms to guess message senders based on multiple variables

Genshin Impact Damage Calculator - [Website](#) — Aug. 2021 - Oct. 2022
- Built an alternative damage calculator that estimates a characters' damage with less needed information
- Allowed a small community to accurately predict their characters' damage consistently within 99.5% accuracy
- Helped over 600 players decide on the value of an unreleased character by analyzing survey data
- Set the community standard for a character's damage by generating all ways their stats could be optimized

Wordle Filter - [Python Script](#) — Mar. 2022
- Built a command line tool to solve the popular Wordle game using pandas dataframes
- Utilized basic regular expressions and dataframe manipulation to filter possible words
- Solved 100% of word puzzles, 80% of puzzles using this script was solved under 5 guesses

COURSEWORK

COVID-19's Effect on Highschool - Intro to Data Science Project ([Website](#)) — May 2022 - Jun. 2022
- Performed data cleaning on open source COVID-19 and Highschool attendance data using Pandas Dataframe
- Built a supervised model that extrapolates the expected covid case count for future months
- Displayed interactive graphs/plots using basic React Hooks to help visualize annual statistic change

TECHNICAL SKILLS

Languages: C++, Typescript, Javascript, CSS, Python   **Spoken**: English, Mandarin, Japanese
Frameworks/Libraries: ReactJS, NodeJS, ExpressJS, Mongoose, Material-UI, Pandas, Seaborn
Tools: Postman, Git, VSCode, Google Cloud Storage, Figma, Heroku   **Databases**: PostgresSQL, MongoDB