Daniel Yu

Senior mathematics student. Looking for a software development internship opportunity to utilize my analysis and programming skills. Built an online personal web (gentle-eyrie-28064.herokuapp.com), which has access to some of my projects.

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EDUCATION

University of California, Santa Barbara, Santa Barbara, CA —
Bachelor of Science: Mathematical Sciences

GRADUATING JUNE 2022

PROJECTS and EXPERIENCE

Future GDP Predictor
- Explored and preprocessed data including data visualization, handling missing values, and standardization
- Using Python, wrote code for multiple regressions to analyze thousands of data points and came to the conclusion that least-squares regression generated the smallest amount of error
- Created a visual presentation of our findings, enabling the prediction of future GDP values

Blog Website (quiet-oasis-92818.herokuapp.com)
- The website enables a blogger to write and publish his blog. Readers can sign up for email update.
- Designed and constructed the website
- Built the front end with HTML, CSS, Bootstrap, JavaScript
- Created the back end with Express, EJS, and RESTful API
- Used MongoDB and Mongoose to manage blog content and reader registration data
- Used Mailchimp to email updates of new blogs

Weather Website (still-fortress-14734.herokuapp.com)
- A website to check the weather of any city over the world
- Used HTML, CSS, Bootstrap, JavaScript, Node.js, Express, EJS
- Applied API to get weather data from OpenWeather

Online Drum Set (stormy-refuge-40150.herokuapp.com)
- Designed and implemented the webpage with HTML, CSS, JavaScript, and jQuery

Simon Says Game (infinite-ocean-89656.herokuapp.com)
- Coded the game with HTML, CSS, and JavaScript

SKILLS

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

Environment/Framework: Node.js, Express, Bootstrap, React.js, jQuery, EJS

Database: MongoDB

Libraries: NumPy, Matplotlib, SciPy

Tools: GitHub, Matlab, Hyper Terminal, MS Excel

Math Knowledge: Statistics, Linear Algebra, Calculus, Mathematical Analysis, Computer and Technology Knowledge, Data Analysis

Abilities: Mathematical Reasoning, Problem Solving, Information Ordering, Attention to Detail, Communication, Time Management

INTERESTS
- Artificial Intelligence
- Machine Learning
- Virtual Reality
- Tennis