

Daniel Yu

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

EDUCATION

University of California, Santa Barbara, Santa Barbara, CA —
Bachelor of Science: Mathematical Sciences
GRADUATING JUNE 2022

PROJECTS and EXPERIENCE

Building and Evaluating GDP Model (gentle-eyrie-28064.herokuapp.com/gdp)

- Developed in Python to run least squares regressions on quarterly US GDP data in the past 75 years. Determined 24th degree polynomial model was the best based on GDP training data.
- Evaluated the prediction power of the polynomial model on test data and found the error terms were large.
- We thought other methods such as neural network could build better GDP measure model. Meanwhile, the overfitting problem should be watched.

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
- Created the back end with Express, EJS, and RESTful API
- Built the front end with HTML, CSS, Bootstrap, JavaScript
- 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)

- Developed the game with HTML, CSS, and JavaScript

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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