Daniel Yu

US citizen looking for a software development job to apply my analysis and programming skills. Developed an online personal website (danielyu.herokuapp.com), featuring some of my projects.

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EDUCATION

University of California, Santa Barbara
B.S. in Mathematical Sciences
Graduated March 2022

PROJECTS and EXPERIENCE

GDP Model (danielyu.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.

Student Management System (danielstudentsystem.herokuapp.com)
- The system allows the user to add, update, delete, and view student information in a database
- Built the frontend server with React and set up a backend server with Java Spring Boot
- Used MySQL for database

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.
- Built the front end with JavaScript and created the back end with Express and EJS
- Used MongoDB to manage blog content and reader registration data and Mailchimp to email updates of new blogs

Weather Website (still-fortress-14734.herokuapp.com)
- A website to check the weather of any city around the world
- Used JavaScript, Node.js, Express, and EJS
- Got weather data through OpenWeather API

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

SKILLS

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

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

Database: MySQL, MongoDB

Libraries: NumPy, Matplotlib, SciPy

Tools: GitHub, Matlab, Hyper Terminal, MS Excel

Math Knowledge: Linear Algebra, Calculus, Mathematical Analysis, Linear Programming, Data Analysis, Statistics, ODEs

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

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