

Daniel Yu-cua

Software Engineer

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TECHNICAL SKILLS

Front End | JavaScript (ES5 and ES6), React, Next.js, HTML5, CSS3

Back End | Node.js, DynamoDB, MySQL, AWS Amplify, RESTful API Development, AWS EC2, Java

Developer Tools | Git, npm, Webpack, Babel, Agile Methodology, Effective Googling

Analytical Tools | Pandas, Python, R, Tableau, Sickit-learn, Matplotlib

EDUCATION

University of Maryland, College Park – BS, Computer Science

2017 - August 2021

University of Maryland, Global Campus – MS, Data Analytics

2021 - December 2023

WORK HISTORY

Full-Stack Software Engineer & Social Media Manager | www.pukalanivillas.com

February 2020 - Present

Real estate website development and promotion

JavaScript | Next.js | EC2 | Node.js | React

- Construction of a modern promotional website for a multimillion-dollar housing project
- Developed front-end skeleton using modular, reusable React components and made final calls for production-level UI changes
- Directed and managed the social media services associated with the housing project to direct traffic into the website
- Implemented efficiently encoded images and text compression to improve page load time, achieving Google Lighthouse performance score of 96

Instructor | iDTech

May 2021 – May 2022

Lead Instructor

Java | Python | Photoshop | Adobe Animate | Adobe Premier

- Guided new students through programming from basic variables to creating their own applications in Java.
- Taught students with no prior experience to able to utilize computer vision and machine learning in their own projects using google colab and teachable machine.
- Utilized the adobe suite to educate youth in animating, directing, and editing, their own short, animated featurettes.

SOFTWARE ENGINEERING PROJECTS

Music Visualizer | www.218studio.com/visualizer

March 2022 – Present

Modern implementation of e-commerce microservice along with stylistic client rendering of visualizers

JavaScript | Node.js |

Express | AWS Amplify | EC2 | S3

- Static website that utilizes the AWS amplify hosting to service global customer base.
- Utilized the P5 JS library to create a reactive grid that responds to music being played. Additionally, users can upload their own files to background music.
- File transfer is done through AWS and a node.js backend that is temporarily cached into an S3 bucket then removed to save costs

Data Analytics | www.danielyu-cua.com/analytics

August 2021 - 2022

Multipage website displaying various applications of Data Analytics

JavaScript | React | Matplotlib | Pandas | EC2 | Python

- Hybrid Images - Creation of hybrid images using edge detection and image filtering.
- Twitter Scraper - Utilizing the twitter API to stream and do sentiment analysis on globally streamed tweets using keywords, usernames, and individual posts.
- Temperature Anomalies - Linear regression analysis on global temperature anomalies correlated with fossil fuel consumption over the past century.
- Earthquake Prediction – A report on global earthquakes utilizing IBM Cognos analytics to sort and categorize high risk areas

CERTIFICATIONS AND AWARDS

AWS Certified Cloud Practitioner | AWS certification

June 6, 2022

Eagle Scout | Boy Scouts of America

September 2015