Nathan Latronica

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Work Experience

Naval Postgraduate School Foundation - Full-Stack Engineer   **April 2022 - December 2023 (project completed)**
- Built Web App for end users to cleanly and efficiently create a list of desired keywords from over 30,000 options. Includes the ability to scan text and suggest the best keywords. Made using React.js, Node and Azure Static Web Apps.
- Integrated Azure's OpenAI to automate data entry for over 15,000 existing keywords.
- Automated the collection of news data from 100+ RSS feeds using Azure Logic apps and Python back-end functions.
- Automated daily, weekly, and monthly backups of Azure table storages containing 30,000 plus rows of data.

California State University, Monterey Bay - Intern   **June 2020 - August 2020**
- Worked to analyze and visualize data collected from the CalSpeed application, which was developed by the California Public Utility Commission. The user could perform tests of either their Wi-Fi or cellular internet connection. The results of these tests were uploaded to a public repository and plotted on the interactive Broadband map.
- Created intuitive graphs using Python that highlighted key aspects of the data from CPUC's database. These data points included upload and download speeds, latency and jitter.

Projects

Discord Board Game Bot
- Built a bot for people to engage in fun activities through text and voice channels.
- Created seven different activities with multiple tools to help with collaboration.
- Implemented with Python using the Discord libraries.

Trade Site
- Created a web app to simulate a fictional trade store in which users could trade personal items without using money.
- Implemented with AWS hosting and database storage.
- Node.Js webApp utilizing MySql and Express
- Website that allows user creation and log in along with the ability to create item listings and the option to leave comments.

Housemates
- Built web app that aims to help organize the monotonous, everyday tasks of family or group. Members can schedule and organize tasks, based on user or activity
- Implemented using Node.js, Express, Mysql, and AWS hosting

Education

California State University, Monterey Bay   **August 2017 - May 2021**
Bachelor's Degree: Computer Science
- Software Engineering concentration
- Dean's List - held a GPA of 3.5+

Technical Skills

- JavaScript, Python, C++, Java, HTML, CSS
- Azure (Functions, Static Web App, App Service, Logic Apps), Github, AWS

Activities

CS++ Cohort
- CSUMB program that emphasized learning culture and promoted teamwork.
- Weekly activities helped reinforce soft skills such as communication, work ethic, and leadership.
- Participated as an ambassador who reached out to incoming freshmen as potential candidates for the cohort.

Programming Team
- Club that focused on all levels of programming from complex algorithms to basic fundamentals using most major programming languages such as C++, Python, and Java.
- Competed in the 2018 ICPC Pacific Northwest Regional Programming Contest.

Kattis (coding challenge website)
- Completed 100+ unique coding problems.
- In the top 5% of the 80,000+ total users.