Benedict Taguinod

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Education

University of California, Berkeley **Jun. 2020 – May 2023**
Bachelor of Science in Electrical Engineering and Computer Science Berkeley, CA
Relevant Coursework: Data Structures, Structure and Interpretation of Computer Programs, Cloud Computing and SaaS, Designing Information Devices and Systems I & II, Discrete Mathematics and Probability Theory, (currently taking) Machine Structures

Diablo Valley College **Aug. 2018 – May 2020**
Certificate of Achievement in Computer Science - Advanced C++ Programming Pleasant Hill, CA
Certificate of Achievement in Computer Science - Program Design
Relevant Coursework: Object Oriented Programming C++, Program Design and Data Structures, Advanced Programming with C & C++, Introduction to Programming, Calculus I, II, & III

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL, (familiar with) Go
Technologies/Frameworks: JavaScript React, NumPy, Flask, Django, MongoDB, PostgreSQL, MySQL, Git, GitHub, Heroku, AWS EC2, (familiar with) Docker

Experience

Placesoft **Dec. 2020 – Aug. 2021**
Software Developer Intern Berkeley, CA

- Collaborated with team to plan backend functionality and design program structure.
- Utilized YouTube and Twitter API to create giveaway aggregators.
- Set up Django web server to store giveaways and giveaway authors in a cloud PostgreSQL database.
- Created NLP machine learning model to judge the validity of YouTube giveaways.

Projects

Purple Politics (purplepoliticsevents.com) | Flask, Python, HTML/CSS, React, MongoDB, IBM NLU API, Algolia API

- Designed and implemented frontend website to show 4000+ news events, articles from those events, and article analysis with search functionality.
- Used Numpy and NLTK to implement a clustering algorithm using TF-IDF vector comparisons and incremental k-means clustering.
- Hosted scheduled task that aggregates news articles from 9 sources, analyzes their text using IBM's Natural Language Understanding API, clusters them into events, and stores those events in cloud databases from MongoDB Atlas and Algolia.
- Maintained backend Flask REST API server on Heroku to retrieve, sort, and serve events and articles from MongoDB Atlas and Algolia's search database.

BearCloud | Go, Docker, SQL

- Created web request handlers to handle user emailing, sign-in, password encryption, and mySQL database storage for chatting application backend.
- Utilized Docker to containerize database and API server components.
- Hosted application on Amazon EC2 linux web server.

Extracurriculars

Cal Hacks 8.0 - LiBearium (libearium.tech) **Oct. 2021**
Team Member University of California, Berkeley

- Collaborated with a team to develop LiBearium's project architecture and design.
- Designed website user interface using Figma that presents library names, busyness percentages, and busy times.
- Implemented website frontend using React while also accommodating backend API.

DVHackers **Aug. 2019 – May 2020**
Team Member Diablo Valley College

- Solved technical interview questions with a team to build coding knowledge.
- Collaborated with a team to plan and design machine learning dinosaur game and Q-learning taxi deliver simulation.
- Created mock Chrome Dinosaur game using Javascript and p5.js to visualize machine learning software.