BENEDICT TAGUINOD

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Education

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

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*

Experience

Placesoft   **Dec. 2019 – Present**
Software Developer   *Berkeley, CA*
- Collaborated with team to plan backend functionality and design program structure.
- Utilzed 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 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 news events, articles, 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, clusters them into events, retrieves text analysis from IBM's NLU API, and stores 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 that handled 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.

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL, Go
Technologies/Frameworks: JavaScript React, NumPy, Flask, Django, Git, GitHub, Heroku, AWS EC2, Docker

Extracurriculars

DVHackers   **Aug. 2019 – May 2020**
Team Member   *Diablo Valley College*
- Worked with a team to solve technical programming problems to build coding knowledge.
- Collaborated with a team to plan and design machine learning dinosaur game and Qlearning taxi deliver simulation.
- Created mock Chrome Dinosaur game using Javascript and p5.js.

DVCoders   **Aug. 2019 – Dec. 2019**
Club Representative   *Diablo Valley College*
- Used bootstrap CSS to add to the organization website.
- Participated in lectures focused on web development.
- Discussed distribution of funds with DVC Inter Club Council.