

# BENEDICT TAGUINOD

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## Education

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### University of California, Berkeley

Jun. 2020 – May 2023

Bachelor of Science in Electrical Engineering and Computer Science

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

## Technical Skills

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**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

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### 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 validity of YouTube giveaways.

## Projects

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**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

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### 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.

### DVCoders

Aug. 2019 – Dec. 2019

Club Representative

Diablo Valley College

- Added personal card to organization website using HTML with Bootstrap CSS.
- Participated in lectures focused on web development.
- Discussed distribution of funds with DVC Inter Club Council to ensure fair monetary support throughout all clubs.