Benedict Taguinod

benedict-taguinod.com | benedict.a.taguinod@gmail.com | linkedin.com/in/benedict-taguinod | github.com/btaguinod

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, Machine Structures, Computer Security, Introduction to Artificial Intelligence, Operating Systems and System Programming, Computer Simulations with Jupyter Notebooks, (Currently Taking) Introduction to Database Systems, (Currently Taking) Introduction to Machine Learning

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, SQL, Go

Technologies/Frameworks: React, NumPy, Flask, Django, MongoDB, PostgreSQL, MySQL, Git, GitHub, Heroku, AWS EC2, (familiar with) Docker, Kubernetes, Helm, Terraform

Experience

Hewlett Packard Enterprise **May 2022 - Aug 2022**

Software Engineering Intern San Jose, CA

- Developed backend and frontend features in Go and React for Kubernetes Helm tool to streamline internal application management.
- Enhanced internal application management tools by developing Terraform scripts that install, delete, and modify Helm charts (program configurations).
- Worked on and collaborated with HPE Nimble Storage team to personalize software for internal customers.

Evtek, Inc. **Dec. 2021 – May 2021**

Software Engineer Intern Berkeley, CA

- Created navigation application to guide drivers around recycling routes using React and Flask.
- Researched external software services for application and discussed pricing strategies with external companies.
- Minimized external software costs by using most cost effective software in navigation app.

Personal 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.

Extracurriculars

Berkeley Student Cooperative - Cloyne Court **Aug. 2022 – Present**

Network Coordinator Berkeley, CA

- Managed Wi-Fi network utilized by 140 students.
- Maintained hardware around the house, including projectors, computers, printers, and speakers.
- Led network crew of 6 members through various software and hardware projects.
- Coded system for RFID Door scanner that allows students to access the house using their Student IDs.

Undergraduate Research Apprentice Program **Dec. 2021 – Present**

Student Researcher Berkeley, CA

- Designed 3D structures using Joint Interactive and Procedural Computer Aided Design (JIPCAD) Software.
- Created pattern generator that creates designs on triangles and pentagons that resemble Gosper Curves using Python.
- Made 3D icosahedrons and dodecahedrons with Gosper-like patterns using point transformation.
- Created spheres from the patterned icosahedrons by using an equalization formula.