Alexis Lay Vu

alexislayvu@gmail.com | alexislayvu.com | linkedin.com/in/alexislayvu | github.com/alexislayvu

EDUCATION

California State University, Fullerton	Fullerton, CA
B.S. Computer Science	*May 2024*

EXPERIENCE

Trader Joe's	Oct. 2019 – Present
Crew Member	*Orange, CA*

- Collaborate with team members to achieve an organized, stocked, and easily accessible product section, enhancing the customer experience and honing valuable interpersonal communication skills.
- Demonstrate commitment to customer satisfaction by promptly addressing concerns or needs and continuously expanding product knowledge.
- Drive sales by engaging with customers on the sales floor, actively promoting products, and increasing awareness.

PROJECTS

Object Detection Web App | *React, JavaScript, HTML, CSS*

- Developed a web application with **HTML**, **CSS**, **JavaScript**, and **React**, leveraging **TensorFlow.js** and the **COCO-SSD** model, enabling users to detect objects through webcam feeds or uploaded images.
- Incorporated customization options for detection settings, including max detections and score thresholds, allowing users to fine-tune detection parameters for precise results.
- Enhanced user experience by implementing dynamic object labeling with class names and confidence scores, fostering improved object recognition and comprehension.
- Implemented seamless integration of uploaded images into the dropdown menu, eliminating the need for users to re-upload files for selection, thus improving user convenience and workflow efficiency.

QuizLingo | *Kotlin*

- Developed an app in **Kotlin** featuring language learning quizzes, enhancing language proficiency and retention by enabling users to practice vocabulary in their chosen language.
- Utilized the **Unsplash Image API** to provide relevant images corresponding to randomly selected words, enhancing user engagement and understanding by correlating visual cues with linguistic expressions.
- Integrated the **Google ML Kit Translator API** to validate user input against correct translations and ensure the accuracy and reliability of language learning assessments.
- Monitored performance, logged answers, and provided comprehensive final scores, offering users feedback and progress tracking capabilities to foster a supportive and motivating learning environment.

University Database | *HTML, CSS, SQL, PHP*

- Engineered a user-friendly university database system, facilitating seamless access, analysis, and management of data to enhance efficiency and usability across data handling tasks.
- Utilized **MySQL** to create a populated database, optimizing testing and development by simulating realistic data and improving accuracy and efficiency.
- Designed a frontend interface for effortless data retrieval and exploration, enhancing accessibility and usability, thereby optimizing user experience and data exploration efficiency.

TuffyScheduler | *C++*

- Developed a **C++** program facilitating clash-free schedule creation for students, resulting in enhanced scheduling efficiency and reduced conflicts.
- Implemented a text file-based course information loader, improving usability and performance by streamlining data processing and program efficiency.
- Utilized **data structures and algorithms** to dynamically generate and evaluate class schedules, optimizing course selection options and user satisfaction.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, HTML, CSS, Kotlin
Frontend: React, Next.js, TailwindCSS
Backend: Flask, SQL (MySQL), PHP
Machine Learning: TensorFlow, OpenCV, pandas, NumPy, Matplotlib, Scikit-learn