Alexis Lay Vu

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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 maintain an organized and efficient product section, improving workflow and ensuring a positive customer experience.
- Demonstrate problem-solving abilities by addressing customer concerns or product issues in real-time, contributing to customer satisfaction and store success.
- Engage with customers on the sales floor to provide recommendations and build product knowledge, fostering a welcoming and informative environment.

PROJECTS

Object Detector | *React, JavaScript, Tensorflow.js, COCO-SSD, HTML, CSS*

- Created a **web application** using **React** and **TensorFlow.js** with the **COCO-SSD object detection model**, allowing users to detect objects via webcam feeds or uploaded images.
- Added customizable detection settings for **max detections** and **confidence score thresholds**, giving users control over detection precision.

TaskPilot | *Python, Flask, Celery, Redis, Nginx, MySQL, JWT, Postman*

- Implemented **Celery** and **Redis** for asynchronous task execution in user registration, login, and task management (CRUD).
- Transformed the application into a **microservices architecture** using **Nginx** as an API gateway and separated account/application services with dedicated databases for scalability.
- Built secure **RESTful API endpoints** with JWT authentication, ensuring seamless interaction across services.

QuizLingo | *Kotlin, Google ML Kit, Unsplash API*

- Developed a **language learning app** in **Kotlin** that helps users improve vocabulary retention through interactive quizzes.
- Integrated the **Unsplash API** to fetch relevant images for randomly selected words, enhancing user engagement with visual learning aids.
- Utilized **Google ML Kit Translator API** to verify user inputs, ensuring **accuracy** in language assessments.

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

- Engineered a **university database** system using **MySQL** and **PHP** to streamline data management and retrieval for users.
- Designed a **simple, user-friendly interface** with **HTML** and **CSS** for easy navigation and interaction with the database.

EXTRACURRICULAR ACTIVITIES

Association for Computing Machinery (ACM)
Team Member

- Participated in meetings focused on computer science topics, enhancing knowledge in algorithms, data structures, and professional development.

TECHNICAL SKILLS

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