

William Ly

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EDUCATION

Oregon State University | Corvallis, OR

Sep 2021- Dec 2023

Bachelor of Science - Computer Science

GPA: 3.80

- **Relevant Courses:** Data Structures, Algorithms, Web Development, Databases, Cloud Application Development, Parallel Programming, Computer Networking, Computer Architecture and Assembly Language

University of California, Riverside | Riverside, CA

Sep 2015 - Sep 2019

Bachelor of Science - Biology

PROJECTS

TrackifyAPI-REST | Python, Flask, GCP Datastore, Auth0, HTML, CSS

<https://github.com/willdly/TrackifyAPI-REST>

- Spearheaded the development of a Python and Flask-based RESTful API, harnessing Google Cloud Datastore for robust data management, ensuring scalable storage solutions for growing data demands.
- Implemented authentication mechanisms with Auth0, enhancing security through secure API endpoint access, and developed a responsive front-end for efficient user authentication and seamless JWT token management.
- Developed CRUD operations for a seamless music playlist management experience, enabling users to intuitively interact with playlists and songs through the API.

Zombie Apocalypse Depot Database | JavaScript, MySQL, Handlebars, Node.js, HTML, CSS

<https://github.com/willdly/ZombieApocalypseDepot>

- Co-engineered a comprehensive e-commerce web application, optimizing a relational database system for inventory management, streamlining data redundancy, and improving operational efficiency with MySQL and Node.js.
- Translated complex ER diagrams into a functional MySQL relational schema, establishing a solid database foundation for tracking customer orders and inventory, pivotal in supporting the e-commerce business model.
- Integrated advanced CRUD functionalities, facilitating seamless data manipulation, and enhancing the user experience for database management, supported by a user-friendly interface designed for efficiency.

Exercise Tracker | JavaScript, MongoDB, Node.js, Express, React, HTML, CSS

<https://github.com/willdly/exercise-tracker>

- Led the development of a MERN stack single-page application, crafting a comprehensive solution for exercise tracking, featuring a REST API for managing exercise logs, powered by Node.js and Express.
- Employed MongoDB for efficient data storage, capturing detailed user exercise metrics, which improved data retrieval speeds and user interaction with exercise history.
- Prioritized feedback integration from 10 users, revamping the React-based UI to emphasize simplicity and user-friendliness, enhancing user engagement and application usability based on insights from real user testing.

WORK EXPERIENCE

Self-Employed | Placentia, CA

Dec 2015 - Present

E-commerce Analyst

- Studied and evaluated market trends in the fashion and commercial goods industries with a specific focus on sneakers, gold coins, and street wear; provided actionable insights to enhance product decision-making acquisitions.
- Managed inventory and financial data in Microsoft Excel tracking \$15,000 in annual revenue; utilized advanced formulas and pivot tables to streamline processes and identify cost-saving opportunities.
- Introduced QR code inventory system, cutting shipping errors by 40% and boosting order efficiency by 25%.

Coastline Dental Care | Huntington Beach, CA

Oct 2019 – Present

Dental Assistant and Receptionist

- Revamped patient check-in procedures with a Google form, minimizing wait times by 50%, enhancing doctor-patient interactions, and ultimately elevating the standard of patient care.
- Managed appointment scheduling and infection control, supporting dental team efficiency in a high-volume clinic.
- Trained 5 new hires on dental appointment scheduling software, dental terminology, and clinical protocols: boosted onboarding efficiency by 40% and reduced time to full productivity by 50%.

RELEVANT SKILLS

Languages: Python, JavaScript, C, HTML, CSS

Frameworks, Databases, and Developer Tools: Flask, React, Node.js, Express.js, MongoDB, SQL, GCP, Docker, Git

Hobbies: Bodybuilding, Sneaker Reselling, Taekwondo, Hip-Hop Dancing, Pickleball