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David Yang

EDUCATION

Merced, CA	**University of California, Merced**	**August 2018 – December 2022**

- B.S. in Computer Science and Engineering, Graduated December 2022.

Merced, CA	**CodePath**	**August 2020 – May 2021**

- Graduate of CodePath iOS Development Course, Graduated May 2021.

WORK EXPERIENCE

Robotics Undergraduate Intern	**Inclusive Interaction Lab**	**April 2022 – December 2022**
		Merced, CA

- Developed software for controlling a Ohmni telepresence robot with a smartphone's gesture and touch controls.
- Default Ohmni WebAPI runs **Node.js** server on robot using **docker** based on **Ubuntu 18.04**.
- Client sends requests to server, server generates commands to robot using a socket.
- Live video feed from robot captured and sent to smartphone using **WebSocket** connections.

Full Stack Software Consultant	**Betts Company**	**January 2022 – May 2022**
		Fresno, CA

- Designed a feature detection model that scans logos for errors.
- Processed model output data using **OpenCV** to populate data into **SQLite3** database.
- Model returns processed data as a result of pass or fail in the **Python** frontend.
- Deployable on mobile devices and desktops.
- Incorporated **Git** to collaborate and organize projects as well as optimize workflow.

PROJECTS

Hyperskill (2023)

- Created various functional applications (coffee machine, traffic light, search engine, flashcards, Spotify music advisor, etc.) in **IntelliJ** IDE while mastering **Java** and **object-oriented programming** fundamentals.
- Practiced and applied **Spring** for inversion of control and transaction management, and **JavaFX** and **Java Swing** for GUI implementation.

Review App (2021-2022)

- Web application where companies and services can set up profiles for users to review and comment on.
- Implemented PostgreSQL database schema using **Prisma** (ORM) to integrate with **React** and **Next.js** frontend.
- Utilized **Yarn** for package installation, version management, and dependency resolution. Implemented custom low-level CSS styling using **Tailwind CSS**.

HealthMetrics App (2021-2022)

- Mobile app for setting, recording, and displaying daily exercise-related metrics (water and caloric intake, caloric expenditure). Compatible with iOS and Android.
- Built with **React Native** framework (**JavaScript** and React), **Expo**, and **SQLite**.
- Client posts metrics to SQLite3 database and server returns data. Data displayed in graphs.

LANGUAGES AND TECHNOLOGIES

- Languages: Java, Python, SQL, C++, JavaScript, C, Swift
- Frameworks and Libraries: Spring, Spring Boot, React, Node.js, SQLite, MySQL, Flask
- Tools: Visual Studio Code, IntelliJ, Git, RESTful APIs, Unix, Maven