

Waley Lin

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Portfolio: waley-porfolio.vercel.app

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WORK EXPERIENCE

Scottsdale Fairmont Princess

Scottsdale, AZ

Full-Stack Developer Lead

Aug 2024-May 2025

- Led full-stack development of a mobile learning app focused on beverage and food pairing education.
- Developed a user-friendly mobile app frontend using React Native and Expo, while creating scalable backend services on Firebase.
- Directed wireframing and UI prototyping for a mobile app, designed the database schema, and implemented key features.
- Implemented core features including authentication, user preference storage, interactive quizzes, and dynamic UI components.
- Managed deployment, debugging, and cross-platform optimization for iOS and Android via Expo.
- Launched the app on the App Store in partnership with Fairmont Scottsdale Princess

Raising Cane's Chicken Fingers

Tempe, AZ

Certified Trainer

Jul 2021- Present

- Coordinated workflows across prep stations, ensuring timely and accurate task execution.
- Assisted with process tracking, system upkeep, and operational troubleshooting efforts.
- Executed quality checks to maintain consistency in output and adherence to standards.
- Trained new team members and delivered ongoing skill-building through peer guidance.

EDUCATION

Arizona State University

Tempe, AZ

Bachelor of Science in Computer Science, Honors (Barrett, The Honors College)

GPA: 3.72 | Dean's List: 2021–2025

PROJECT EXPERIENCE

Arizona State University

Tempe, AZ

AI Chatbot for Interactive Beverage Learning

Aug 2024 - May 2025

- Designed, developed, and tested an AI-powered chatbot for personalized beverage learning.
- Integrated OpenAI's GPT with Firebase Realtime Database for real-time responses using user preferences.
- Built backend with Python, FastAPI, and Render to support scalable, low-latency communication.
- Conducted a 30+ participant user study approved by ASU IRB, testing user experience.
- Assessed chatbot using accuracy, personalization, and satisfaction metrics; improved from survey feedback.
- Documented development and research findings in an exploratory honors thesis under faculty mentorship.

Pet Image Classifier with CNN (PyTorch)

Tempe, AZ

Personal Project

Mar 2025 - Apr 2025

- Built and trained a Convolutional Neural Network in PyTorch to classify pet images using a custom dataset.
- Designed and implemented a 3-layer CNN architecture with ReLU activations, max pooling, and fully connected layers.
- Applied data preprocessing (resize, normalization) and split dataset into training and testing sets.
- Evaluated model performance with accuracy, precision, and recall metrics from scikit-learn.
- Optimized training using Adam optimizer ($\text{lr}=0.0001$) with CrossEntropyLoss over 10 epochs on GPU (CUDA).

TECHNICAL SKILLS

Languages & Core: Python, JavaScript, TypeScript, Java, C++, SQL

Web Development: React.js, HTML, CSS, Responsive Design, Tailwind CSS, Axios, Node.js, Express.js, FastAPI, Flask, REST APIs, JSON / API Integration, Authentication Basics (JWT/Firebase Auth)

Tools & Databases: Firebase, SQLite, MongoDB (basic), Git, GitHub, Docker, Postman, Vercel, Render, VS Code, CI/CD (basic), Jupyter Notebook, Pandas, NumPy, Matplotlib, React Native, Expo, AWS (basic), Microsoft Azure (basic), Linux/Bash (basic), Excel