

Waley Lin

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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.
- Built a user-friendly React Native / Expo frontend and developed scalable backend services using Firebase.
- Designed UI wireframes, prototypes, and the complete database schema; implemented core app functionality.
- Implemented authentication, user preference storage, interactive quizzes, and dynamic UI components.
- Managed deployment, debugging, and cross-platform optimization for both iOS and Android.
- Published the app on the App Store in collaboration with Fairmont Scottsdale Princess.

Raising Cane's Chicken Fingers

Tempe, AZ

Certified Trainer

Jul 2021- Present

- Coordinated prep workflows and ensured timely, accurate execution of tasks during high-volume shifts.
- Maintained operational systems, troubleshooting issues to minimize downtime and ensure customers receive orders within 2 minutes.
- Conducted quality checks to uphold consistency and standards across teams.
- Trained over 30 new hires, providing ongoing coaching to improve team efficiency and skills.
- Supported cross-functional communication between kitchen and front-of-house to maintain smooth service.

EDUCATION

Arizona State University - Honors (Barrett, The Honors College)

Tempe, AZ

Bachelor of Science in Computer Science

Aug 2021 -May 2025

GPA: 3.72 | Dean's List: 2021–2025 | First-Generation College Graduate

PROJECT EXPERIENCE

AI Chatbot for Interactive Beverage Learning

Tempe, AZ

Capstone Project

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, Git, GitHub, Docker, Postman, Vercel, Render, VS Code, CI/CD, Jupyter Notebook, Pandas, NumPy, Matplotlib, React Native, Expo, AWS, Microsoft Azure, Linux/Bash, Excel