

Lung Hao Tung

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WORK EXPERIENCE

Software Engineer | *Co-Diagnostics, Inc*

June 2024 - April 2026

- Built a cross-platform mobile application using Flutter and Dart to connect with a medical instrument via Bluetooth, incorporating Hasura for database interactions.
- Redesigned the demo user workflow to support offline functionality by implementing SQLite queries for storing approximately 100 critical data locally, enabling seamless offline analysis and experimentation.
- Addressed bugs and implemented new features, including locale-based updates, improved user search functionality (enhancing usability by 35%), and managed GQL connections for data insertion and updates.
- Collaborated with a cross-functional team of approximately 11 members, including engineering, firmware and manufacturing.
- Redesigned local data pipeline and validation logic for 50K+ diagnoses and 6K+ experiments; optimized database writes and query paths, achieving 5x performance improvement.

Web Developer & User Experience Assistant | *J. Willard Marriott Library*

June 2023 - May 2024

- Resolved 70+ website-related issues reported by library employees using Jira project management software. This includes adding elements and editing pages, utilizing WordPress and Omni CMS.
- Implemented custom PHP functions to enhance website functionality, resulting in improved user interactions and efficiency.

PROJECTS

[PerfectSkinDiary](#) | *Mobile Application*

May 2026 - Present

- Built and published an AI-powered React Native, Expo, and TypeScript mobile app for skin tracking, processing YouCam AI Skin Analysis results across 16 skin metrics and 24 generated mask overlay files per analysis.
- Integrated 3 Perfect Corp AI APIs through Supabase Edge Functions to run Day 1 skin analysis and AI goal-image simulation in parallel across 10 target skin concerns, storing outputs in Supabase Storage.
- Utilized Claude API to convert AI skin scores, day-over-day deltas, and AM/PM routine data into plain-language skincare insights for each tracked entry.

[UBetterSurplus](#) | *Web Application*

October 2023 - January 2024

- Delivered efficient Web Application using React, JavaScript, C#, Entity Framework Core and ASP.NET Core, integrating a responsive and visually appealing user interface through Figma and Fluent UI Design principles.
- Established secure user authentication features with JWT (JSON Web Tokens) and BCrypt.
- Developed Python data extraction system that automatically captured approximately 600 real-time inventory items from frequently updated University surplus PDF files, converting unstructured documents into a searchable MySQL database that eliminated manual processes and provided immediate access to inventory information.
- Created detailed DBML and Entity Relationship (ER) diagrams to map and normalize database architecture, implementing optimized index patterns and structured table relationships that minimized query complexity and accelerated data retrieval operations across the application.

EDUCATION

MS. Software Development

University of Utah | School of Computing

August 2022 - May 2024

GPA: 4.0 / 4.0

BS. Information Communications

Chinese Culture University | College of Journalism and Mass Communications

September 2018 - June 2021

GPA: 3.75 / 4.0

SKILLS & TECHNICAL TOOLS

Languages: Python, Dart, JavaScript, C#, Java, HTML, CSS, Swift

Technologies: Flutter, React, Firebase, MySQL, SQLite, GraphQL, Git, JSON, Figma