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WORK EXPERIENCE

Tri Service General Hospital, Digital Medical Center (AI) <i>Android Developer</i>	<i>Taipei, Taiwan</i> 09/2024 – Present
Led the complete rewrite and bilingual modernization (Chinese/English) of the TSGH Helper app (100K+ installs), using Kotlin, MVVM, Jetpack Compose, Coroutines, and Flow, including architecture overhaul, localization pipeline, and full Play Store release management (versioning, internal testing, staged rollouts, and production publishing).	
<ul style="list-style-type: none">▪ Delivered core features across authentication, appointments, payments, telemedicine, and report viewing.▪ Testing & Code Quality: Implemented unit tests (JUnit 5, Robolectric) and end-to-end tests, improving coverage and reducing regressions across mission-critical features.▪ Authentication: Integrated JWT-based authentication with encrypted local storage for secure, consistent sessions.▪ Product Impact & Reliability:<ul style="list-style-type: none">○ Raising Play Store rating from 3.2 to 4.7 stars within months of release.○ Cutting crash rates from 1 % to 0.05 % by integrating Firebase Crashlytics, Analytics, and a force-update system for proactive monitoring and controlled rollouts.▪ Security & Compliance:<ul style="list-style-type: none">○ Achieved OWASP MASVS Level 3 compliance, ensuring enterprise-grade mobile app security.○ Integrated biometric authentication for sensitive actions such as payments and telemedicine features.▪ Model Deployment: Deployed a legacy MXNet model for ECG Classification on Android via TVM, a custom C++ runtime, leveraging compiler internals knowledge to resolve ABI compatibility and linker issues between JNI and NDK libraries.▪ SDK Interoperability: Integrated the Webex SDK into the app, bridging legacy Android Views with Compose-based logic. <p>Tech Stack: Kotlin Coroutines Flow Jetpack Compose Hilt Retrofit WorkManager Junit 5 OKHttp WebSocket</p>	
Frontier.cool <i>AI Engineer Intern</i>	<i>Taipei, Taiwan</i> 07/2023 – 06/2024
<ul style="list-style-type: none">▪ Model Development: Developed and deployed a textile classification, improving accuracy from 50% to 85% using PyTorch and AWS Lambda.▪ API Development: Deployed a production-level machine learning model API on AWS Lambda for textile classification. <p>Tech Stack: PyTorch Docker AWS Lambda AWS S3 Postman Git Python OpenCV</p>	
National Tsing Hua University <i>Private Tutor</i>	<i>Taipei, Taiwan</i> 09/2023 – 06/2024
<ul style="list-style-type: none">▪ Tutoring: Aided 5 students in Python, C, Computer Architecture (RISC-V), and SQL.	

EDUCATION

National Tsing Hua University, BS, Electrical Engineering and Computer Science	<i>Hsinchu, Taiwan</i> 2024
<ul style="list-style-type: none">▪ GPA 3.91/4.3 (Top 6/34) Academic Excellence Award 2023 Scholarship 2020 - 2024	

PROJECTS

TaipeiTrash (Play Store) Tech Stack: Kotlin Jetpack Compose Google Maps SDK Room	2025
A city utility app that helps residents locate nearby garbage trucks and public trash bins.	
Compiler Design Tech Stack: Lex Yacc C Makefile Linux	2024
Developed a C Compiler, implementing lexical analysis, parsing, semantic analysis, code generation, and optimization.	
Lifeline (Android Developer, UX/UI Designer) Tech Stack: Kotlin Jetpack Compose SQL Hilt Figma	2022
An Android to-do application designed to enhance users' planning by prioritizing tasks based on duration and deadlines.	

AWARDS

Thailand Olympiad in Informatics: Competitive Programming (C++), Bronze Medal	2019
NECTEC: Thailand National Software Contest An app to simplify work attendance using geofencing in Java.	2017

SKILLS & INTERESTS

Languages: Thai (Native), English (Fluent) (TOEIC – 910/990, TOEFL iBT – 96/120), Chinese (Intermediate)

Technical Skills:
Programming: Kotlin, C++, Python, Go, SQL, Java
Frameworks: Jetpack Compose, Hilt, Retrofit, Supabase, Firebase
Tools: Git, Docker, AWS Lambda, Linux