**Ching-Hsiang Lin** 949-981-3820 | chinghlinn@gmail.com

Personal Android app: https://play.google.com/store/apps/developer?id=Qriuce

Stackoverflow: http://stackoverflow.com/users/691626/dino-tw

**Summary**

* Strong knowledge in Object-Oriented Programming
* Hands-on skills in native mobile app development (8+ years in Android), backend RESTful API design and implementation, Linux and lab setup
* Great knowledge in modern Android components, Jetpack (AndroidX, MVVM, Compose, Navigation, LiveData, Room, View Binding, RecyclerView), Coroutine, Dependency Injection, Retrofit, and Reactive (Kotlin Flow)
* Practical experience in RESTful API and BLE communication on Android platform
* Test experience in automation, unit test and code coverage
* Ability to learn new technologies quickly and have good sense on data security

**Technical Skills**

* **Programming Languages**: Java, Kotlin, Objective-C, XML, HTML, JavaScript, CSS
* **Mobile**: Android, iOS
* **Backend**: Spring Framework, RESTful API, Hibernate, JSON
* **Version Control**: Git, TFS
* **Development Tools**: Android Studio, Eclipse, XCode, Maven, Wireshark
* **Database**: SQL, MongoDB, Redis
* **Test**: JUnit, Mockito, MockK, Appium

**Professional Experience**

**First Orion** (www.firstorion.com, Apr 2022 – Mar 2024) – **Sr. Android Engineer**

**T-Mobile ScamShield**

* Worked on the T-Mobile’s scam call protection Android app that identifies scammer and helps keep them away.
* Applied MVVM pattern to bottom navigation bar to improve code quality and scalability.
* Identified and solved repetitive bugs by using Android JetPack Navigation component in Kotlin.
* Evaluated and demonstrated Navigation component feature between view system, JetPack Compose and hybrid to help team made decision and for knowledge share.
* Improved unit tests code quality and bring up code coverage from 2% to more than 50% by adding Robolectric and MockK to the team.
* Worked with team to evaluate Dependency Injection between Koin and Hilt(Dagger on Android).

**Environment**: Android Studio, Java, Kotlin, Git, Jira

**Medtronic** (www.medtronic.com, Jun 2021 – Apr 2022) – **Sr. Android Engineer**

**Diabetes management**

* Worked on a smart diabetes management Android app to implement both UI and data layer in Java to meet marketing requirements, UI spec(including RTL) and data format for international release
* Implemented UI layout to support multiple screen size and resolution
* Started to add more modern design by using MVVM and Kotlin for new features.
* Used Google firebase for user authentication and cloud data management
* Quality assurance by implementing Unit Test with framework Junit, Mokito, Robolectric
* Worked closely with iOS team to make sure user experience consistency

**Environment**: Android Studio, Java, Kotlin, Git, Firebase, Jira

**Smith Micro** (www.smithmicro.com, Jul 2020 – Jun 2021) – **Android Software Engineer**

***Family safety and Voice Messaging***

* Implemented and enhanced functionalities such as data sync due to time zone change, UI branding in Java
* Research and build new features in Android SMS verification prototype, scoped storage, voice mails export/import
* Unit test and CI/CD integration

**Environment**: Android Studio, Java, Kotlin, Git, Jira

**OrthAlign** (www.orthalign.com, Nov 2017 – Mar 2020) **- Sr. Android Engineer**

***Surgical Alignment***

* Designed and implemented the software architecture with separation of concerns for an Android based medical device, completed the requirements for FDA submission.
* Implemented features including Bluetooth communication, Sensor reading, Custom UI, animation and run as a system app in kiosk mode.
* Worked closely with electrical engineer team to create testing apps using Kotlin
* Implemented and demonstrated the web service to exchange data with the device for concept approval.
* Implemented unit tests and demonstrated automaton test using Appium and CI/CD with Jenkins

**Environment**: Android Studio, Java, Kotlin, Git

**Dexcom** (dexcom.com, Jan 2017 – Nov 2017) - **Sr. Engineer - Software Applications**

***Glucose monitoring - Android***

* Implemented custom UI and animation, REST client as reusable modules to create deliverable SDK
* Used Retrofit and HandlerThread to implement async and sync REST API client
* Implemented Android unit test and instrumentation test, and maintain 95% and higher code coverage
* Leveraged Facebook screenshot test tool to perform visual tests
* Project development with Agile methodology

**Environment**: Android Studio, Java, Git, Jira

**SecureAuth** (www.secureauth.com, Aug 2014 - Jul 2016) - **Java Developer**

***OTP Android APP*** (https://play.google.com/store/apps/details?id=secureauth.android.token&hl=en)

* Improved user-experience by implementing new UI and using GCM push-notification for 2-factor authentication
* Integrated open source project to add QR code scanner feature to enhance device registration process
* Implemented fingerprint feature to support native Android and Samsung pass as screen unlock mechanism
* Knowledge share with iOS and cloud team members
* Involved in all phases of SDLC

**Environment**: Android Studio, Java, Google API, Git

**Identity Provider** (SSO and 2-factor authentication service)

* Implemented RESTful API to integrate front-end UI and back-service, such as LDAP, JSON data processing and persistent
* Used Spring framework security feature to implement CSRF protection
* Worked with UX/UI team to develop the dynamic admin UI by writing HTML, JavaScript, CSS and leveraged JQuery to implement AJAX call to ensure compatibility
* Integrated opensource projects Jawr and Ehcache to improve performance in both network traffic and server response time
* Used log4j framework to implement real-time and async logging
* Directly worked with client on feature requirements

Environment: Spring Framework, Eclipse IDE, Java, Maven, TFS

**PoppinApp** (Oct 2013 - Jun 2014) - Mobile Developer

**Social shopping application – iOS**

* Developed a social shopping application in iOS using native Objective-C for and published to App store.
* Used location manager to obtain current user location and sent query to REST web service to find out what's nearby
* Used AVFoundation to implement photo taking and processing
* Used native NSURLConnection library to implement network communication, including lazy download to retrieve images from server as needed for smooth user experience
* Worked with teammate and management on new UI design
* Mentored team member in Android life cycle

Environment: XCode, Objective-C

**Education**

* **University of Southern California**, Los Angeles, CA

 M.S. in Computer Science (GPA 3.6)

* **University of Oregon**, Eugene, OR

 B.S. in Computer & Information Science (GPA 3.71)