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# Lou Morda

San Diego, CA 92130

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## **TECHNICAL SKILLS**

- Langs: Java, Kotlin, Bash
- Arch: MVP, MVVM, Retrofit, RxJava2, Kotlin coroutines, Mockito, Espresso, Room
- Tools: Android Studio, IntelliJ, Bamboo, JIRA, Github, Slack, GIMP
- Web: REST, WebSocket, SSE, WebFlux, STOMP, Wireshark, Chrome Dev Tools
- IoT: Raspberry Pi, rooting phones, OpenJDK, Gumstix

## **EMPLOYMENT**

### **SAIC**

#### **Senior Software Engineer**

**San Diego, CA**

**Sept 2016 - Present**

- Responsible for developing and maintaining SNAP-A, an Android application being used by the U.S. Coast Guard for hurricane victim relief operations. SNAP-A tethers to UCSG radios and enables radio communication when cell towers get jammed during emergencies.
- SNAP-A gives the operator the ability to broadcast position and send text messages to all participants in the SNAP network. SNAP-A configures the SNAP Server to forward all track data to the third party ATAK app that displays the tracks on a NASA WorldWind map.
- Our stack includes the SNAP-A Android app that communicates with a Reactive Netty Spring Boot server that controls a legacy Java server. This socket level legacy server performs all of the proprietary Link-16 encryption and data translation to and from the radio.
- SNAP-A was originally developed with Java + MVP + Retrofit + OkSse with Mockito and Espresso for testing. RxJava2, SqlBrite, and Kotlin coroutines have been added, and I am now developing 100% Kotlin using Kotlin coroutines for all new features.
- Participate in all web service API design meetings. Lead the Text Message and Contacts feature development including designing the API JSON Schema and user interfaces.
- Responsible for making and distributing all builds to QA and sales team. Setup and maintain Bamboo build plan for the Android app.
- Designed multiple ways of running our Spring Boot and legacy server on embedded devices including rooted phones and Raspberry Pi devices.

### **Comtech - VirtuMedix**

#### **Software Engineer**

**Aliso Viejo, CA**

**March 2015 – Sept 2016**

- Similar to our competitor Teladoc, VirtuMedix patients consulted with their physician over a live video feed through our app. The VirtuMedix platform was used by multiple hospitals and care providers, including [VideoDoc](#)
- The physician prescribed medications and updated medical records real-time. Other features included chat, surveys, viewing previous consultations, and multiple profiles for one account (parent and dependent profiles).

- Consultation price was paid through Stripe, live video consults were done with WebRTC / OpenTok, and asynchronous communication was achieved with Google Cloud Messenger and WebSocket.
- Re-wrote the VirtuMedix platform. Replaced code with an MVP architecture and Retrofit, OkHttp, Jackson, and GreenRobot frameworks.
- Collaborated daily with an iOS developer, web client team, server team, product managers, and QA testers in an Agile environment.
- Material Design Support Library was added for a more modern, animated look.
- Developed Android Studio and Gradle build flavors in order to quickly build four separate apps each with a unique color scheme and logos for all of our customers.
- In charge of all Google Play tasks including publishing updates and analyzing statistics.
- Assisted in building and maintaining iOS app in Xcode.
- Also responsible for assigning JIRAs to an offshore mobile development team and code reviewing all of their commits.

**Welk Resorts Group  
Android Developer**

**San Marcos, CA  
Oct 2014 – March 2015**

- Developed RESTful AsyncTasks to upload sales leads and download sales event data from a Salesforce database.
- Saved sales leads to local storage file system and pushed leads when network connection was re-established.
- Integrated IDTech UniMagII credit card reader third-party API and pushed credit card data to Authorize.net.

**GROUPS**

- Github: [github.com/lmorda](https://github.com/lmorda)
- StackOverflow: [stackoverflow.com/users/914587/lou-morda](https://stackoverflow.com/users/914587/lou-morda)
- LinkedIn: [linkedin.com/in/loumorda/](https://linkedin.com/in/loumorda/)
- San Diego Kotlin Users Group
- GDG San Diego - Android Developers Group

**GOOGLE PLAY**

- VideoDoc: [play.google.com/store/apps/details?id=com.virtumedix.videodoc.irl](https://play.google.com/store/apps/details?id=com.virtumedix.videodoc.irl)
- RelyMD: [play.google.com/store/apps/details?id=com.virtumedix.relymd](https://play.google.com/store/apps/details?id=com.virtumedix.relymd)

**EDUCATION**

- Columbia University - M.S. Biomedical Engineering
- Northeastern University - B.S. Electrical Engineering