JUAN FRANCISCO CHANGO

Senior Mobile Developer | AI & HPC Enthusiast

From Quito, Ecuador
jnfran92@gmail.com
linkedin.com/in/jnfran92

Living in Santiago, Chile
(+56) 96 54 50 869 *Chile*
jnfran92.com   github.com/jnfran92

EXPERIENCE

Senior Mobile Developer
TACTECH

May2022|present (1 yr.)   Chile

- Software consultant for Falabella LATAM(Chile, Colombia and Peru). Part of the Mobile team(Chile and India) in charge of design and development of new features for the Android app.

- Working with native Android: Kotlin and Java, DI with Dagger and Unit testing with Mockk, JUnit and Mockito. Experience in code refactoring , unit testing, app performance analysis and debugging. In charge of cloud features using Firebase and Google Cloud(GCP).

Mobile Developer
NTT DATA

Nov2020|May2022 (1.5 yrs.)   Chile

- Software consultant for Scotiabank Chile: Design and development of new functionalities for the Scotiabank Go App. Working with Kotlin and Java, DI with Dagger and Hilt and strong knowledge of MVI and MVVM archs.

- In charge of Android Bundle/APK releases, security improvements, research and development of new Android features (components, libraries, modules, etc).

Software Developer
SOY MOMO

Oct2019|Nov2020 (1yr.)   Chile

- Leading the development of **SoyMomo Tablets**: Android software, cloud back-end, AI architecture, QA and testing pipelines. Native Android Development in Kotlin, DI with Dagger, working with archs: MVC, MVVM & MVP and CLEAN & SOLID.

- Working with team on design, development and integration of machine learning models for inappropriate content detection(Tensorflow lite + Python + AWS Cloud Instances).

Software Developer
TALOV

Aug2017|Aug2019 (2 yrs.)   Ecuador

- Working with team on design, development and integration of real-time audio recognition algorithms on mobile devices (Android/iOS). Leading the development of the SpeakLiz Android App.

- Leading the team on the training and evaluation of Deep Neural Network models using IBM Watson and IBM Infrastructure. Experience with HPC development on GPU Clusters (CUDA, C++).

EDUCATION

Ph.D student, Computer Science
Universidad de Chile

Mar2020 – deferred   Santiago,Chile

Master's degree, Computer Science
Universidad Austral de Chile

Mar2018 – Mar2020   Valdivia,Chile

Bachelor's degree, Acoustics
Universidad de las Américas

Feb2012 – Jul2017   Quito,Ecuador

SKILLS

Mobile & Web Development
Java, Kotlin
CLEAN , SOLID, MVC, MVVM, MVI
Dagger, Hilt, RxJava, Flow
JUnit, Mockito, Mockk, Compose
iOS-Swift, Node, Vue.Js

AI & HPC
Python
C++, CUDA, OpenMP
IBM Watson

HONORS & AWARDS

At NTT DATA
- Secure Code Warrior Training: 1st place Chile Global Ranking (Java, Kotlin & Swift).

At Universidad de Chile
- PhD Program Internal Scholarship.

At Universidad Austral de Chile
- Master Program & Research Assistant Scholarship.

At Universidad de las Américas
- Academic Excellence Scholarship.

PUBLICATIONS

GPU-accelerated rectangular decomposition for sound propagation modeling in 2D.
2019 38th International Conference of the Chilean Computer Science Society (SCCC).

Acoustic Vibration of a Fluid in a Three-Dimensional Cavity: Finite Element Method Simulation using CUDA and MATLAB.
2018 37th International Conference of the Chilean Computer Science Society (SCCC).