

JUAN FRANCISCO CHANGO

Senior Mobile Developer | Kotlin Multiplatform Expert

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EXPERIENCE

Senior Mobile Software Engineer

Falabella

Jun 2023 | Present

LATAM

- Lead Android dev for Falabella App (millions of users LATAM-wide), delivering new features in Kotlin/Java, ensuring performance, security, analytics, and cloud integration (Firebase, GCP).

Senior Mobile Developer

TACTECH

May 2022 | Jun 2023

Chile

- Consultant for Falabella LATAM, building/refactoring Android modules with Kotlin, Dagger, MVVM; improved testing, CI/CD pipelines, and integrated Firebase/GCP services.

Mobile Developer

NTT DATA Europe & LATAM

Nov 2020 | May 2022

Chile

- Developed Scotiabank Go App with Kotlin/Java, MVVM/MVI, Dagger/Hilt; managed APK releases, enhanced security, and led R&D of new Android components/libraries.

Software Developer

SoyMomo

Oct 2019 | Nov 2020

Chile

- Led Android development of SoyMomo Tablets, adding parental controls and AI (TensorFlow Lite), integrating AWS backend, and designing QA/testing pipelines for scale.

Software Developer

Talov

Aug 2017 | Aug 2019

Ecuador

- Built real-time ML audio/sign-language apps; led SpeakLiz Android dev; trained/evaluated DNN models with IBM Watson, optimized with CUDA/C++ on GPU clusters.

Assistant Research Engineer

Universidad Austral de Chile

Apr 2018 | Apr 2019

Chile

- Performed HPC-accelerated acoustic simulations (FEM/FDTD) with ANSYS, Python, MATLAB, C++, CUDA; optimized models for large-scale research projects.

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

Android (Java/Kotlin)

Kotlin Multiplatform

iOS (Swift)

Python (AI & HPC)

Vue.js & TypeScript

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

Multi-GPU Sound Propagation Modeling.

Master Thesis (2019). Adaptive Rectangular Decomposition for wave-based acoustics.

GPU-Accelerated Rectangular Decomposition for Sound Propagation in 2D.

Proc. 38th Int. Conf. of the Chilean Computer Science Society (SCCC), 2019.

Acoustic Vibration of a 3D Cavity: FEM Simulation using CUDA and MATLAB.

Proc. 37th Int. Conf. of the Chilean Computer Science Society (SCCC), 2018.