CV Fernando Lopes

Mobile & Web App Developer

Name: Fernando Lopes
Nationality: Portuguese (born and raised in Germany)
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Languages: German (native), Portuguese (fluent), English (fluent),
                        Spanish (basics)

Projects

2007 - 2015
- Dynamic Websites with HTML5, CSS3, Javascript / Backend - PHP
- JSON / XML Rest Api's
- NGINX Web Server
- Backend JSON Api Server with Node.js

2016
- Web Apps with Javascript - React.js, Inferno.js
- Android development with Java / Kotlin
- IOS development with Swift

2017
Logspot - FriendChips
Social Media / Communication with BLE (Bluetooth Low Energy) Devices

- IOS App (Swift) WebView with Inferno.js App / Today Screen Widget
- Android App (Kotlin) WebView with extern loaded FriendChips Platform

January 2018 - October 2018
BMW
Models Catalog with offline storage of content and resources

- IOS App (Swift)
- Android App (Java / Kotlin)
- WebView with React.js App

January 2019 - May 2019
Bosch Startup - Triffix (grow platform)
Traffic Management System

- React.js (TypeScript) Administration Web App for the traffic control center to enter / manage the traffic
  events
- IOS / Android App (React Native - TypeScript) for delivering the traffic events to the users

June 2019 - March 2020
Own Project
Chat App for IOS / Android / Web
- Web with React.js / Typescript
- Mobile with Cross Platform Framework Flutter + IOS (Swift) / Android (Kotlin)
- Backend Node.js

- **Web**
  React.js
  Typescript
  RxJS
  HTTP / Websockets (JWT Auth)
  Local Storage

- **Flutter**
  HTTP / Websockets (JWT Auth)
  HiveDB
  RxDart
  BLoC Pattern

- **IOS** (Swift)
  Push Notifications
  Today Screen Widget
  RxSwift
  HTTP / Websockets (JWT Auth)
  Realm DB

- **Android** (Kotlin)
  Push Notifications
  Coroutines / Channels / Flow / StateFlow / SharedFlow (replacement for RxKotlin)
  HTTP / Websockets (JWT Auth)
  Realm DB

- **Node.js** Api Server
  TypeScript
  JWT
  Notifications Service to FCM / APNs
  Websocket Server
  Pub/Sub (Redis)
  DB's: Mongo / Redis

April 2020 - November 2020
Midsized company focused on IoT - Industry 4.0
Movement analysis and tracking for physical environments (persons and products)

Apps for:
- App for Connection to BLE Devices (iBeacons) to read and set parameters
- Covid-19 Social Distancing (receive / process iBeacon Advertisements)
- way-finding on Cruise Ships (receive / process iBeacon Advertisements + Locations)

Android Development - tasks:
- improve existing Features, implement new Features, fix UI and Performance issues on the company's existing SDK and Apps
- BLE / GATT / Tracking / Maps with Floor Plans / Multilateration / REST / Websockets
- update of the company's SDK and Apps to targetSdkVersion 30 (Android 11)
- migration of the company's SDK and Apps from Java to Kotlin, with usage of Coroutines / Channels / Flow / StateFlow / SharedFlow

IOS (Swift) Development - tasks:
- Support the intern IOS Developer at porting features from Android to IOS

Experience with:

- Android App Development (Java / Kotlin)
- IOS App Development (Swift)
- Flutter (Dart)
- React.js
- TypeScript
- Node.js
- React Native
- JSON API
- Mongo DB
- Redis DB
- Realm DB
- Mysql DB

- Jira
- Git
- Bitbucket
- Agile Development (Scrum)