Javier de Martín Gil

iOS developer, Telecommunications Engineer & Machine Learning enthusiast

Bilbao, Spain. Available to relocate after graduation in late June 2020.

javierdemart.in
github.com/javierdemartin
linkedin.com/in/javierdemartin/
javierdemartin@me.com

Experience

iOS Developer @ Bytek Smart Solutions SL   February 2019 / May 2020

`Swift`, `CoreBluetooth`, `RXSwift Coordinator Pattern` & `AWS Cognito`

iOS app for a developing eHealth platform with Alexa. Provisioned the initial WiFi and Alexa credentials through CoreBluetooth. Authenticated users with AWS Cognito. Persisted user data using AWS DynamoDB.

iOS Developer @ VirtualCare   August 2019 / March 2020

`Swift`, `MVVM`, `Coordinator Pattern`, `Fastlane`, `Git`, `RXSwift` & `Network Extension`

Contracted as a freelance to develop an always on VPN for iOS devices using Network Extensions. Supports network interface changes and automatically redirects the traffic through the tunnelled interface. Managed multiple VPNs on a single device to support multiple VPN profiles.

iOS Developer @ Aholab Research Group   April / July 2018

`Swift`, `AVFoundation` & `Objective-C Bridging Headers`

Developed a Text-To-Speech for spanish and basque speakers. Compiled propietary C/C++ library to synthesise text and iteracted with it from Swift code.

Education

University of the Basque Country   Oct 2018 / Jul 2020

MSc in Telecommunications Engineering, thesis: "Improving bike sharing predictions and usage using LSTM neural networks with Machine Learning and clustering analysis"

University of the Basque Country   Sept 2013 / Sept 2018

BSc in Telecommunications Engineering, thesis: "Neural network model based model to predict availability of urban bike sharing system"

Relevant coursework: Telecommunication Networks, TCP/IP Protocol Stack, RF, FPGAs, Signal Processing, Cisco IOS routers & Software Development

Projects

Neural Bikes `neural.bike`   2017 / Today

`Python`, `Keras`, `NodeJS`, `CloudKit JS` & `InfluxDB`

Solving the problems of bike sharing. Bikes are not always available and they are not distributed equally. Created a time series prediction system using Machine Learning and LSTM neural networks. Predicts daily availability for different cities using previous data availability.

Bicis `app.neural.bike`   2016 / Today

`Swift`, `RX Swift`, `MVVM` & `Coordinator Pattern`

Developed the iOS app to show predictions from Neural Bikes' API. Compares predictions and actual history to see how they compare to give users relevant information with the data gathered.

Bilbao Dynamics   2013 / 2019

Founded a non-profit association with freshman friends to teach kids robotics, electronics, 3D printing & programming. Built our own Arduino-based robots with all the necessary components to be able to teach.

Languages

Spanish Native & **English** Proficient

Awards

Bizintek, 2nd place awarded to best BSc thesis