Javier de Martín Gil

Telecommunications Engineer, iOS developer & Machine Learning enthusiast

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

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Experience

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

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

Created an iOS app to provision a developing eHealth hardware device with Alexa with the initial Bluetooth & WiFi configuration.

iOS Developer @ VirtualCare   August 2019 / January 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 interacted 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.

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