Javier de Martín Gil

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Telecommunications Engineer, iOS developer & Machine Learning enthusiast

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

Experience

iOS Developer @ Bytek   February 2019 / May 2020

· iOS app to provision an Alexa-based eHealth hardware device with the initial configuration

`Swift, CoreBluetooth, Coordinator Pattern & AWS Cognito`

Freelance iOS Developer   August 2019 / January 2020

· Always on VPN for iOS devices using Network Extensions

· DNS-based web blocker

· Detects network interface changes and re-establishes the connection to always use the tunnelled interface

· Managed multiple VPNs on a single device

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

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iOS Developer @ Aholab Research Group   April/July 2018

· Text-to-speech app for spanish and basque speakers

· Used proprietary speech C/C++ library. Interacted with C code from the Swift app.

`Swift, AVFoundation & Objective-C Bridging Headers`

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

· Time series predictions of bike sharing availability using LSTM neural networks

· Deployed model in production & available for multiple cities with several users per day

· Open Source (`code.neural.bike`)

· Available as a web app, iOS app & public API REST

· Ready for multiple cities (Bilbao, Madrid & New York)

· Automated the creation of daily predictions for each city using previous availability data

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

Bicis `app.neural.bike`   2016/Today

· iOS app to check bike sharing availability

· Uses Neural Bike's API to show the data

· Compares predictions & actual availability

`Swift, RX Swift, MVVM & Coordinator Pattern`

Bilbao Dynamics   2013/2019

· Non-profit founded in freshman year with university friends

· Built Arduino-based robots from scratch

· Taught robotics, electronics, programming & 3D printing to kids

Languages

Spanish Native

English Proficient

Awards

Bizintek

2nd place awarded to best BSc thesis