

Javier de Martín Gil

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

Telecommunications Engineer, iOS developer & Machine Learning enthusiast

Graduating in late July 2020, available to relocate. Several years of software development with Swift and Python, shipping personal projects and proven work experience.

Experience

Freelance iOS Developer

August 2019 / Today

- 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

iOS Developer @ Bytek

February 2019 / May

- iOS app to provision a developing eHealth hardware device with Alexa
- Initial WiFi configuration of the hardware device

Swift, CoreBluetooth

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, 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