



CV António Nunes

iOS / macOS Developer

## Personal Info

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## Introduction

António is a very experienced developer, with a passion for delivering high quality software that is both well implemented and a pleasure to use. He loves staying up to date on the latest developments within his field. Both as an independent software developer, and as a freelancer/consultant António has delivered a multitude of applications for the iOS and macOS (OS X) platforms. This includes end user applications, as well as B2B/Enterprise apps, several of which interface with remote backends.

António is very self motivated, yet a good and responsible team player, who takes pride in his work, and enjoys communication and collaboration with his peers. He can work on location as well as remotely.

## Skills

António has experience with a variety of programming languages, among which: **Objective-C, C and Swift**. Previously also **Pascal**, various **Basic** dialects, **AppleScript, Lisp, 4D**. Through development of Mac and iOS software he is familiar and comfortable with **MVC and related patterns** as well as with the

general **Cocoa design patterns**. He also knows how to use **XML** and **JSON** and has experience communicating with **RESTful** APIs. He has experience with **low level, low latency, sound generation** on iOS, implementing photo capturing screens, **asynchronous programming** (GCD) and **unit testing**.

Further, António has had some experience developing websites, and hence knowledge of **HTML, CSS** and **Javascript**. Other languages he has touched, to greater or lesser extent: **PHP, Python, Ruby, Lua, C++**.

Miscellaneous: **Refactoring, Git, Github, Bitbucket, Fastlane, Bitrise, Jenkins, Agile/Scrum, Jira, Bitrise, Stash, Heroku, Cloudkit, Core Data, SQL, Apple App Store, In-app purchase, Customer Support, Quality Assurance, Systems Designer, Presenter, Autolayout, View animation, Scanning and OCR, PDF generation, PDF parsing, Shell scripting, CocoaPods, Carthage, OpenSSL, remoteio, Garbage Collection, Automatic Reference Counting (ARC), JSON, XML, Regex**

## Work Experience

### JOBS / PROJECTS:

#### OWNER OF SINTRAWORKS – 2006-PRESENT

António is the founder and owner of **SintraWorks**. SintraWorks is a software company specialised in high quality macOS and iOS software. It publishes its own software, but also offers freelance services to third parties. Software released under the SintraWorks brand includes the popular PDF editors **PDFClerk Pro** and **PDF Nomad** (both for Mac OS X), and **Metron** (for iOS), a metronome that has been especially popular amongst professional musicians and which was **featured by Apple** in the iOS App Store in 2009.

### **FREELANCE IOS DEVELOPER**

**MAXDORO 2020 → CURRENT**

Senior iOS developer.

### **FREELANCE IOS DEVELOPER**

**LUSCII 2020 → 2020 (2 MONTHS)**

At Luscii healthtech I was hired to help expedite the development of a medical app due to urgent demands in light of the Corona crisis. This involved working with RxSwift and a Viper(ish) setup. Originally hired for one month, they liked my contributions enough that they asked me to stay on another month.

### **FREELANCE IOS DEVELOPER**

**MEDIAMONKS 2019 → 2020 (11 MONTHS)**

Originally, António was hired as a temporary developer (6 weeks) for maintenance work on the Starbucks app for the EMEA market, but he was soon asked to stay on to take up an additional role as interim lead on a project for a major international sports organisation, and later to put his skills to work on various other projects for a couple of North-American clients, including security work through encrypted file reads and writes.

### **FREELANCE IOS DEVELOPER**

**DE PERSGROEP PUBLISHING 2018 → 2019 (12 MONTHS)**

Initially, António was responsible for the iOS aspect of a transition taking an externally developed project in-house. The project integrates React, React-Native and native implementations and uses a number of functional techniques to replace some more traditional platform design patterns. He was responsible for hiring additional iOS devs for increased development capacity. The job required extensive communication with other teams, both front-end and back-end, to ensure all bits and pieces work fluidly together. The project was released to the public mid 2018 and its

first incarnation consisted of an iPhone and an iPad app for a major Dutch newspaper, De Volkskrant (<https://itunes.apple.com/us/app/volkskrant.nl-mobile/id418873064?mt=8>), later to be followed by additional newspaper brands. António was also the developer who implemented the App Store aspect of the subscriptions functionality.

### **FREELANCE IOS DEVELOPER**

#### **BACKBASE 2017 → 2018 (9 MONTHS)**

At **BACKBASE** António provided the iOS implementation of a Proof of Concept (PoC) project. This included designing and implementing various user interfaces (like showing ATMs using MapKit) and their backend facing counterparts, co-designing SDKs and coordinating with Android developers and other team members to minimise discrepancies between platforms and to ensure UX and UI designs were closely followed. At the end of the PoC, António was invited to stay on for the implementation of the initial modules that sprang from it.

### **FREELANCE IOS DEVELOPER**

#### **DE VOLKSBANK 2016 → 2017 (14 MONTHS)**

At **De Volksbank** (mainstream Dutch bank) António's responsibilities included implementing new features for their mobile banking app (including **Touch & Face ID**); solving bugs and other implementation issues; simplifying and streamlining the Xcode project structure and the code repositories; teaching Swift to other developers on the team; untangling and streamlining the code base (refactoring) and familiarising other team members with Cocoa programming conventions and design patterns.

### **FREELANCE DEVELOPER OF WRTSMOBILE APP (IOS)**

#### **DE DIGITALE SCHOOL 2009 → 2016**

For **De Digitale School**, António designed and implemented the **WrtsMobile** app for iOS, which is a native mobile front-end to

their online vocabulary training system. WrtsMobile has long been a steady member of top 5 in the Dutch App Store for the Education category and is used by thousands of high school students every day.

## **FREELANCE OS X AND IOS DEVELOPER**

### **TIGNUM 2012 → 2015**

For **Tignum** António developed and maintained various internal and B2B/Enterprise apps on the Mac and iOS platforms. This included **implementing custom UI elements**, and **interfacing with backends**.

## **FREELANCE IOS DEVELOPER FORMULA N APP**

### **NAVYBOOT 2010 → 2011**

For **Navyboot** António developed and maintained the Navyboot **Formula N** iOS app. An app that both showcased Navyboot's seasonal collections, and followed the Formula 1 seasons, with special emphasis on Michael Schumacher. Showing, among other things, race and circuit information, performance commentaries, and race results.

## **SYSTEMS MAINTAINER, DATABASE DEVELOPER, TECHNICAL LEAD**

### **DRU 2001 → 2006**

Among a number of duties of varying character, António developed a very elaborate course-centre management database system with advanced query facilities in the **4D database** environment. (This included keeping track of courses, customers and room accommodation, both on and off site.) He was the go-to **support person** for the organisation's Windows and Mac users and managed its **Unix servers**. He was also responsible for **network management and maintenance**.

## **IGOR ENGRAVER SYSTEMS DESIGNER, NOTEHEADS AG, STOCKHOLM, SWEDEN – 2000-2001**

Initially hired as a **customer support lead** and **software tester**, António was promoted within six months to '**Systems Designer**' responsible for the **Igor Engraver** software ecosystem. Igor Engraver was a very advanced music notation and playback software system.

## **AUTOMATION AID, MEDIAPARK, HILVERSUM – 1995-1998**

António worked as an aid during the automation of the sound library of the Mediapark. (Transition from paper based to digital archive.)

## **2ND VIOLIN WITH CHAMBER ORCHESTRA MUSICA DUCIS – 1988-1999**

For years António played as violinist with the chamber orchestra Musica Ducis (formerly Het Brabants Kamerorkest), who performed widely both nationally and abroad.

## **Education**

- Massage therapist training, Heartwood Institute, Garberville, California – 2000
- Het Brabants Conservatorium (Fontys) - 1985-1994 – Bachelor of Music, 1992 (Conservatory of music - violin)
- Gymnasium Bernrode, Heeswijk-Dinther – 1980-1985 (Highest level of high school in the Netherlands.)

## **Open Source software:**

<http://sintraworks.github.io/ActionSheetController/>  
<http://sintraworks.github.io/QueuedAlertPresenter/>

## Languages Spoken:

- Fluent (native or near native speaker level): Dutch, English, Portuguese.
- French and German.
- Able to read and understand to greater or lesser extent: Spanish, Italian, Swedish, Danish, Norwegian.

## Software:

### OPEN SOURCE SOFTWARE BY ANTONIO:

#### **QUEUEDALERTPRESENTER 2016 → CURRENT**

<https://github.com/SintraWorks/QueuedAlertPresenter>

A **QueuedAlertPresenter** serialises the presentation of alerts. Using `QueuedAlertPresenter` instead of `UIAlertController` directly, ensures your user gets to see all the alerts your code creates. You can create an alert in any thread: the presenter will ensure it gets shown on the main thread.

#### **ACTIONSHEETCONTROLLER 2016 → CURRENT**

<https://github.com/SintraWorks/ActionSheetController>

An **ActionSheetController** is an iOS control for presenting a view in an iOS action sheet or alert. You can add a custom view, representing your custom content, and add any number of buttons to represent actions related to that content. You can also forgo any custom view and simply present a number of actionable buttons.

### APPS AND APPLICATIONS BY ANTONIO (SELECTION):

#### **PDF NOMAD 2012 - 2016**



[https://sintraworks.com/index.php/sintraworks/pdfnomad\\_home](https://sintraworks.com/index.php/sintraworks/pdfnomad_home)

António was responsible for the design and implementation of PDF Nomad.

**PDF Nomad** is a modern, carefully styled PDF editor, in the Mac OS tradition. It features a multitude of ways to take your PDF documents from one place to the next, through an easy to use interface. It provides often used operations like OCR and merging multiple documents, as well as more exotic ones like exporting a document's text as a spoken sound file.

It is easy and intuitive to use, with wide-scale support for drag and drop, and single menu items that can accomplish large tasks like resizing pages. At the same time it offers considerable support for more advanced tasks like batch outline replacement through regular expressions and scripting through AppleScript. PDF Nomad is fast and efficient. It easily scrolls through, and performs operations on documents with thousands of pages.

### **COMMANDPDF 2011 - 2016**

[https://sintraworks.com/index.php/sintraworks/commandpdf\\_home](https://sintraworks.com/index.php/sintraworks/commandpdf_home)

António was responsible for the design and implementation of CommandPDF.

The **CommandPDF** package contains a set of applications aimed at simplifying and speeding up PDF imposition workflows.

CommandPDF was created because some power users needed a versatile, powerful, automatable and yet efficient and easy to use tool for their publishing and imposition workflows. To achieve the required power and economy of resources CommandPDF is conceived as a command line binary that takes a few succinct command line options to perform its operations. To ease scalability the CommandPDF package includes a daemon that can watch a directory for arriving PDF documents, and apply a predefined

template (called an imposition template) of modifications on them. Finally, to ease the creation of these templates a graphical user interface utility is included so that templates can be created visually and with immediate feedback.

### **WRITSMOBILE 2009 - 2016**

<https://wrts.nl/signin>

António was the designer and developer of **WrtsMobile**, the iOS app for the Netherlands' largest and most popular vocabulary training system, **Wrts**, from De Digitale School. WrtsMobile is actively used by thousands of students every day and often ranked in the App Store top 3 of Educational apps in the Netherlands.

### **METRON 2009 - CURRENT**

[https://sintraworks.com/index.php/sintraworks/metron\\_home](https://sintraworks.com/index.php/sintraworks/metron_home)

António is responsible for the design and implementation of the professional metronome app Metron.

Metron is a Metronome targeted at professional and semi-professional musicians, that is very easy and intuitive to use. It contains a highly accurate, extremely low latency, sound engine, and allows customisation of beat patterns through an easy to use score editor. It also includes a pitch pipe, and allows exchange of sequences through a web-browser interface. Metron allows gradual speedup and slowdown of beats over time, and allows performances to be recorded.

### **PDFCLERK / PDFCLERK PRO 2006 - 2012**

[https://sintraworks.com/index.php/sintraworks/pdfclerk\\_home](https://sintraworks.com/index.php/sintraworks/pdfclerk_home)

António was responsible for the design and implementation of **PDFClerk** and its successor **PDFClerk Pro**.

Whether you are a printing and graphic communication industry professional, need to prepare a PDF document to your print-shop's layout specifications or edit PDF documents for a wide variety purposes, chances are PDFClerk Pro can help you get the job done more easily.

You can print out your manuals, reports, essays, articles, web pages, etc., in a convenient and economic way. You can even create books for languages that read from right to left like Arabic, Chinese and Hebrew. PDFClerk Pro recalculates impositions blindingly fast. Even documents with thousands of pages are laid out in less than a second. Play with margin settings, or any other layout options: PDFClerk Pro's instant previews make it cheap to experiment.