

Personal data

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Academic Degrees

September 2000 – February 2004	Ingeniería Superior en Informática (Computer Science 5 years Degree) (Universitat Ramon Llull, Enginyeria La Salle)
September 1996 – September 2000	Ingeniería Técnica en Informática de Sistemas (Computer Science 3 years Degree) (Universitat Ramon Llull, Enginyeria La Salle)

Additional Training

2001-2002 academic courses	Assistant scholar in the “ Enginyeria la Salle ” computer science department
September 2000 – June 2002	Teaching position in the programming lab of the “ Enginyeria La Salle ” computer science department

Working Experience

November 2015 – Present day: SEIDOR-OpenTrends, Senior iOS engineer.

Coding and maintenance of a number of local government related applications (iOS)

Technologies: Swift, Swift UI, Combine, Objective C, JSON, GITFlow, MapKit, Multi-device adaptive layout fine tuning, CocoaPods, Swift Package Manager

Tasks: Coding and maintenance of various official government apps regarding public transportation, cultural services, public information services, etc... Migration of older technology modules into refactored newer libraries ones.

Banking architecture code maintainment and delivery tasks (iOS)

Technologies: Swift, JSON, GitFlow, CocoaPods (pods hosting), Jenkins, CI/CD, Migration and testing

Tasks: Maintenance of several “black box” architectural modules for a Banking iOS big application. Versioning, integration and delivery of said modules onto the CI/CD Jenkins environment for the main App usage. Maintenance of the local iOS machines CI farm ecosystem.

Banking management APP (iOS)

Technologies: Objective C, JSON, SVN, MapKit, Multi-device adaptive layout fine tuning, CocoaPods

Tasks: Implementation of several controllers inside the app, importing and processing the contents returned by the bank data API, allowing the user to interact with some of the simplified bank services designed for the app. Adaptation and fine tuning of all graphical views to the different screen sizes, aspect ratios and devices.

Veterinary measurement device interaction app (iOS)

Technologies: Objective C, JSON, GIT, SDWebImage, Multi-device adaptive layout fine tuning, CocoaPods, low level Socket communication

Tasks: Implementation of several parts of the app and its associated workflow graphical events (blood sample measurements). Adaptation and fine tuning of all graphical views to the different screen iOS screen sizes, aspect ratios and devices. Multilanguage engine implementation.

January 2015 - October 2015: Visual-Engineering, Smartphone apps developer (specially for iOS, but also Windows Phone 8).

Real Madrid 2015 APP (Windows Phone 8)

Technologies: C#, WPF, XAML, GIT

Tasks: Implementation of several controllers inside the app, importing and processing the contents returned by the Real Madrid data API

APP for editing and customizing shirts (sizes, colors, features,...) for one of the biggest clothing manufacturers in Spain (iPhone)

Technologies: Objective-C, JSON, AFNetworking, SDWebImage, Mercurial, JSONModel

Tasks: Implementation and programming of the logic that imports and adapts the API data onto the app. Implementation of the graphical clothing graphical selection tools and wizards.

October 2010-April 2014: Treeapps/Think3D, apps developer (specially for iOS, but also some Android and Windows Phone 7), as well as their support backends and related mobile webpages.

APP Catalunya Ràdio (iPhone/iPad/Retina/Android)

<https://itunes.apple.com/es/app/catalunya-radio/id318047072?mt=8>

Technologies: Objective-C, JSON, XML, GIT, AJAX, TWITTER API

Tasks: Adaptation of the double iphone/ipad interface as well as upgrading to retina screen. Importing the graphics from the design department. Alerts programming. Acquiring and replaying streaming data coming from an external JSON/XML API.

-Catalunya Informació (iPhone/iPad/Retina/Android)

Technologies: Objective-C, JSON, XML, GIT, MYSQL, AJAX, PHP, TWITTER API

Tasks: Adaptation of the double iphone/ipad interface design as well as upgrading to retina screen. Importing the graphics from the design department. Alerts programming. Acquiring and replaying streaming data coming from an external JSON/XML API, as well as the tweets coming from the TWITTER API.

-Catalunya Ràdio Espanyol (iPhone/iPad/Retina/Android)

Technologies: Objective-C, JSON, XML, GIT, MYSQL, AJAX, PHP, Yii, TWITTER API

Tasks: Adaptation of the double iphone/ipad interface design as well as upgrading to retina screen, backend programming (dynamic data sending from the CMS to the app: Players, scores, photos, external static audios and streamings). Alerts programming. Acquiring and replaying streaming data coming from an external JSON/XML API, as well as the tweets coming from the TWITTER API.

-Official BBC English courses (iPad)

Technologies: Objective-C, PHP, XML, GIT, MYSQL, EXCEL, Apple STORE API, multimedia.

Tasks: Data model automatization and importation module from DVD/Excel formats into XML. Multimedia contents importation and adaptation. Tests and scoring ipad reprogramming and emulation. Lesson creation and App Store buying and management.

-Fotoprix (iPhone)

Technologies: Objective-C, XML, GIT, APIS (Facebook, Instagram, flickr, Google Maps), webservices

Tasks: Facebook, Instagram and Flickr importation modules. Retina screen adaptation. Geolocalization support for selling points.

-Tendances Gourmandes (iPad)

Technologies: Objective-C, XML, PHP, SQLITE, GIT

Tasks: iPad Adaptation of LE FIGARÓ “Tendances Gourmandes” recipe lesson books. Recipe adaptation, management, favorites and importing process from the original paper printed recipe books.

-The Watch Enthusiast (iPhone/iPad/Retina)

Technologies: Objective-C, XML, PHP, MYSQL, GIT, JSON

Tasks: Trivia game module development embedded inside the big application. The game included score, high-scores and random question selection. Excel automatized importation module for future questions. Retina adaptation of the whole iPad application

-Apixaban/Sylodix quizzes

Technologies: Objective-C, XML, GIT

Tasks: Interactive questions and answers quiz implementation, with on-screen animated drag and drop capabilities.

-mNacTec (iPad2)

Technologies: Objective-C, XML, GIT, GPUImage

Tasks: Museum description app implementation. Chroma key overlay to user taken pics inside the museum, with uploading process onto a central server.

Web mobile Treeapps

Technologies: HTML, CSS, jQuery

Web responsive UIC 2013

Technologies: HTML, CSS, jQuery, Responsive

Web mobile Carrera y Carrera 2012

Technologies: GPS GeoLocation, HTML, CSS, jQuery, i18n

Previous jobs

May/June 2010 September/October 2010	<u>The Corner (Santa Coloma de Gramenet)</u> Teaching position in a private academy, in charge of the IT courses addressed to unemployed people (Oficina de Treball de la Generalitat)
February 2004 – February 2009	<u>E2S (Electronic Engineering Solutions)</u> <ul style="list-style-type: none">- I+D Engineer: development and programming of telemetric electronic devices, oriented to electro-medicine applications (GMT-ALMED and TELEVEN projects), as well as all the needed database and associated managing applications (WEB interfaces, data gateways, etc...)- Administrator of several <i>Linux</i> and <i>Windows 2003 server</i> machines.- ParkHelp Project: Software to easily place parking sensors onto a map and configure their attributes.- ParkHelp Project: Software to manage orders and deliveries of the different components of ParkHelp product.- ParkHelp Project: Maintenance and development of the “ServerCOM” module.- Volumétric Project: Software to control and analyze data coming from the laser device used to measure volume and size of the trucks passing through a truck gate.- ELM Project (Multimedia Player), Graphic

	<p>implementation of a menu system for the embedded multimedia player ELM, using SDL library under Linux.</p> <ul style="list-style-type: none"> - ParkHelp Project: Migration of the old ServerCOM module onto a new scalable architecture based on webservices/hibernate/SOAP - ParkHelp Project: Design of the new Application Database Model in order to deal properly with i18n (internationalization) and adding multi-language core for complex-writing languages. - Creation and maintenance of an internal wiki to keep track and documenting various projects.
October 2002 – October 2003	<p style="text-align: right;"><u>Gran Teatre del Liceu</u></p> <p>Development and deployment of the “Liceu Directe” ticket selling web application, using the following technologies/Development Environments: java (applets/servlets), SQL, Oracle, J-Builder</p>

Technical skills

Everyday use skills/tools	Level	Experience	Years using
Swift UI	Intermediate	Since 2021	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Combine	Basic	Since 2022	■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
iOS development	High	Since 2010	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
GitFlow/SourceTree	High	Since 2014	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Apple/Mac Environment	High	Since 2010	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Swift	High	Since 2015	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Objective C	High	Since 2010	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
iOS UIKit/AutoLayout	High	Since 2016	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Redmine	Intermediate	Since 2015	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Figma/Miro/Invisio	Intermediate	Since 2017	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Adobe PhotoShop	High	Since 2000	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Frequently used skills			
Command line/Bash/scripting environments	Expert	Since 1993	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Windows Environment	Expert	Since 1993	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Unix environments	Expert	Since 1993	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
3D Modeling (Blender)	Intermediate	Since 2018	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Teaching Skills	High	From 2000 to 2020	■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■
Experimenting on my own			
Flutter	Basic	Since 2021	■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■

Digital Audio/Video edition	Intermediate	Since 2004	□□□□□□□□ □□□□□□□□ □□□□□□□□
Photographical retouch	High	Since 2000	■□□□□□□□ □□□□□□□□ □□□□□□□□
Used in the past			
Jenkins	Basic	From 2020 to 2021	□■□□□□□□ □□□□□□□□ □□□□□□□□
Confluence	Intermediate	From 2019 to 2021	□■□□□□□□ □□□□□□□□ □□□□□□□□
Android Development	Basic	From 2010 to 2013	□□□□□□□□ ■□□□□□□□ □□□□□□□□
WebApps Development	Intermediate	From 2011 to 2013	□□□□□□□□ ■□□□□□□□ □□□□□□□□
Visual C# / Microsoft .NET Framework	Basic	From 2005 to 2015	□□□□□□■□ □□□□□□□□ □□□□□□□□
SDL programming Library	Intermediate	From 2000 to 2007	□□□□□□□□ □□□□□□□□ □□□□□□□□
Web programming/PHP/HTML/CSS/JQuery	Intermediate	Since 2000	□□□□□□□□ □□□□□□□□ ■□□□□□□□
Java	Intermediate	From 1998 to 2012	□□□□□□□□ ■□□□■□□□ □□■□□□□□
C Language	High	From 1993 to 2005	□□□□□□□□ □□□□□□□□ ■□□□□□□□

Languages

	Comprehension	Written	Spoken
Spanish	High	High	High
Catalan	High	High	High
English (Cambridge University "Certificate in Proficiency English" C2 title obtained)	High	High	High
Japanese -EOI Barcelona Drassanes intermediate level certificate obtained. -N4 certificate obtained in 2010 (Old JLPT3/日本語能 力試験 3)	Basic/Intermediate	Basic/Intermediate	Basic/Intermediate

Certifications

- **TROPOS LEVEL 1 TRAINING certification**, Urban WiFi technology TROPOS (3 day course in Amsterdam, January 2007)
- **TROPOS LEVEL 2 TRAINING certification**, Urban WiFi technology TROPOS (2 day course in Amsterdam, January 2007)
- Cambridge University "**Certificate in Proficiency English**" C2 title.

Thursday, January 19, 2023