

Curriculum Vitæ

(updated on February 2017)

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Job profile description

Mobile developer over many platforms.

Summary

I received a five-year bachelor's degree in Computer Science in 2006. Since then I am working as a consultant for private corporations providing software development in fields such as telecommunications, mass retail and medical clinics.

I currently hold the role of iOS software developer for an agile team that adopts SCRUM methodology since early 2015. I have experience of other mobile platforms (Android, Windows Phone, BlackBerry) as well as on frontend web development.

I have a strong interest in the latest technological advancements of statically typed programming languages (Kotlin, Java 8, Swift 3), dynamic ones (Ruby, Javascript), programming paradigms (Object Oriented/Functional) and methodological approaches as Functional Reactive Programming (RxJava, RxSwift). Also, I became interested in the automation of processes, implementing an automated system for the build, deployment of software artifacts and server provisioning (Jenkins, Artifactory, Maven, Gradle, Scripting, Puppet, Vagrant).

Skills

Programming paradigms: Object Oriented, Functional

Programming languages: Kotlin, Java, Swift, Objective-C, C, C#, Ruby, Javascript

Frameworks: RxKotlin, RxJava, RxSwift, RxJs

Web stacks: Ruby on Rails, Node.js

Databases: Postgres, Redis, SQLite, MySQL, SQL Server, DB2 UDB

Version Control Systems: Git, Git-SVN, SVN

Platforms: Android, iOS, Windows Phone, MacOS X, Linux, Windows

Web/Application server: NGINX, Apache

Professional experiences

Period: 8-2016 – ongoing

Experience: Native iOS application development targeted at consumer market

Role: Mobile application developer

Client: Telecom Italia Lab

Objectives: Implementation of an iOS application that allows the user to set a secret PIN on a SIM, that can be associated to a credit card to access and/or purchase services offered by partners of Telecom Italia

Description: Development of a smartphone application that provides recognition services (SPID) based on SIM to access third party services: gain access to public administration services or payment for goods/services of business partners. The application provides other ancillary services (purchase of bus tickets and parking) and is also able to capture and virtualize loyalty cards

Technologies: Swift, RxSwift, iOS, Alamofire, Xcode, CocoaPods

Period: 1-2016 – 8-2016

Experience: Native android application development targeted at consumer market

Role: Mobile application developer

Client: Telecom Italia Lab

Objectives: Implementation of an Android application that allows the user to set a secret PIN on a SIM, that can be associated to a credit card to access and/or purchase services offered by partners of Telecom Italia

Description: Development of a smartphone application that provides recognition services (SPID) based on SIM to access third party services: gain access to public administration services or payment for goods/services of business partners. The application provides other ancillary services (purchase of bus tickets and parking) and is also able to capture and virtualize loyalty cards

Technologies: RxJava, EventBus, Retrofit, Java, Android Studio, Android

Period: 11-2015 – 12-2015

Experience: Development of a desktop application for acquiring identification token to be transferred via API after verification

Role: Desktop application developer

Client: Telecom Italia Lab

Objectives: Release an identification turnkey solution SDK to a third party

Description: Implementation of a Desktop PC application able to get an identification token via WebCam (QrCode) or a PC/SC NFC reader, check such token with a REST call and invoke user-customizable callback API

Technologies: Java, Swing/Awt

Period: 11-2015

Experience: Development of a desktop application for acquiring identification token to be transmitted to a USB Smartcard device equipped with an NFC interface

Role: Desktop application developer

Client: Telecom Italia Lab

Objectives: Implementation of a Desktop PC application that can receive tokens to be transferred to an USB SmartCard device equipped with an NFC interface

Description: Desktop PC application able to receive identification tokens via OpenID Mobile Connect and transfer them onto a USB device equipped with an NFC Smartcard interface capable of transmitting such tokens in HCE mode

Technologies: Java, JavaFx

Period: 10-2015 – 11-2015

Experience: Bluetooth Low Energy GATT profile customization for a client identification token-based solution

Role: Firmware software developer

Client: Telecom Italia Lab

Objectives: Enabling the use of Bluetooth Low Energy Technology, within the context of a turnkey solution identification via token internally developed

Description: Definition, design, configuration, implementation and installation of a GATT Profile, Service and Feature onto a firmware of a programmable BLE device connected to a PC in order to transfer tokens sent by a smartphone (iOS or Android) via BLE interface to the serial port of the personal computer and then be processed by a Desktop Application

Technologies: BlueGiga Proprietary Scripting Language, Java, Swing/AWT

Period: 8-2015 – 10-2015

Experience: Native mobile development Android 4.0 and higher

Role: Mobile application developer

Client: Telecom Italia Lab

Objectives: As part of a turnkey solution, implementation of an identification appliance through token developed internally using Android terminals to enable the identification through NFC technology (HCE), QRCode received via Bluetooth and Mobile Connect OpenID authentication

Description: Application for Android able to identify a user through a Mobile Connect login. An SMS verify of the phone number associated with a customer's data base in order to receive identification tokens that can be used for payment, turnstiles opening, and so on

Technologies: OAuth, OpenID Connect, Android, Java

Period: 6-2015 – 08-2015

Experience: Native mobile development Android 4.0 and higher

Role: Mobile Application developer

Client: Telecom Italia Lab

Objectives: Design and implementation of an application for smartphones to manage internet traffic offers offered as coupons

Description: The application captures coupons via QR Code, by watching videos provided by Sponsor or by Scratch Card sold by the service provider. The coupons consist of hours or internet traffic and can be activated by the application itself. Coupons may be transferred to other TIM customers via the telephone number of the recipient or via NFC

Technologies: REST, Android, RecyclerView, CardView, Volley

Period: 4-2015 – 5-2015

Experience: Single page web application

Role: Javascript application developer

Client: Telecom Italia Lab

Objectives: Visual editor for the production of XML documents

Description: Implementation of a visual editor for the production of Widget type custom XML documents validated with a set of XSD schemas and downloadable as a zip file

Technologies: JQuery, Underscore, HTML5

Period: 1-2015 – 3-2015

Experience: Native mobile development Android 4.0 and higher

Role: Mobile application developer

Client: Telecom Italia Lab

Objectives: Evolutionary maintenance of a smartphone application to manage reservation for guests visits

Description: Customization and addition of features in the application upon user requests; design and implementation of smartphone application to manage the booking of corporate resources (classrooms meeting) and enable access to the resource (eg. opening enabling mechatronics for classroom meeting) devices via NFC; the application also allows the entry clearance in the company (eg. enabling opening turnstile via NFC) as a virtual reception service

Technologies: Android, RecyclerView, CardView

Period: 9-2014 – 12-2014

Experience: Full stack web server application provisioning

Role: Operations engineer

Client: Telecom Italia Lab

Objectives: VM Provisioning, service configurations and software deploy within UNIX environment

Description: Automated configuration and installation of a RDBMS, Application Server in a Java environment, deploy web application package

Technologies: Puppet, Vagrant, VMWare, VirtualBox, Ruby, Bash

Period: 6-2014 – 9-2014

Experience: Build automation of Android projects and libraries

Role: Build automation engineer

Client: Telecom Italia Lab

Objectives: Implementation of a centralized build system for team's projects with internal Issue Tracker integration

Description: Implementation of auxiliary scripts for a centralized application build

Technologies: Jenkins, Gradle, Maven, Android, Redmine, Ruby, Bash

Period: 2-2014 – 6-2014

Experience: Native mobile development Android 2.3 and higher

Role: Mobile application developer

Client: Telecom Italia Lab

Objectives: Design and implementation of a smartphone application for managing reservations of guests visits

Description: The application allows the entry clearance in the company on a specified date as virtual reception service; interfacing to back-end REST for delivery and consultation of bookings to authorized users

Technologies: Android, Fragments, REST

Period: 9-2013 – 2-2014

Experience: Native mobile development Android 2.3 and higher

Role: Mobile application developer

Client: Telecom Italia Lab

Objectives: Design and implementation of smartphone application to manage the booking of corporate resources (classrooms meeting) and enable access to the resource (eg. opening enabling mechatronics for classroom meeting) devices via NFC

Description: Design architecture to handle bookings of heterogeneous resources with different types of equipment and selection criteria; interfacing to back-end REST for delivery and consultation of bookings to authorized users

Technologies: Android, Fragments, REST

Period: 8-2013 – 9-2013

Experience: Native mobile development BlackBerry 7.1

Role: Mobile application developer

Client: Telecom Italia Lab

Objectives: Application for NFC equipped smartphones, for the management of smart cards (eg. Attendance badge business, credit card canteen, public transport badge); interface to a library developed to communicate to / from SIM NFC and NFC terminals (POS, detectors, etc ..)

Description: Allows through REST API back-end developed by third parties, the management of subscribed services (subscription request to a new service, removal subscription to one or more services, operations related to the individual as a subscribed service payments, sending identity in terminals, etc ..); management of PIN / PUK application integrated SIM Level

Technologies: Java Micro Edition, BlackBerry, NFC

Period: 5-2013 – 7-2013

Experience: Evolutionary development web application

Role: Web application developer

Client: Gruppo Tesi

Objectives: Components customization in web application for the management of customizable questionnaires oriented assessment and identification of company policies regarding privacy

Description: Personalization of .NET components for insertion and formal validation of formulas expressed with EXCEL syntax used for the calculation of the scores in the questionnaires

Technologies: C#, ASP.net, .NET, SQL Server, T-SQL

Period: 2-2013 – 4-2013

Experience: Web application development

Role: Front end web developer

Client: Banca Intesa San Paolo

Objectives: Customization components in CMS to manage corporate banking websites

Description: Customizing components javascript (carousel, WYSIWYG editor) Java Servlet in a content management system based on XML

Technologies: Javascript, jQuery, Java, JSP, Weblogic, J2E

Period: 1-2013 – 3-2013

Experience: Teaching of native Android applications development

Role: Android development teacher

Client: SCAI Torino

Objectives: Training on the development of Android applications in Java

Description: Dispensing a course to introduce the Android operating system, its components and their application programming techniques through a theoretical introduction accompanied by the development of a sample application that integrates ListView, database management, position management, maps, notifications, media, WebView and fragments

Technologies: Java, Android

Period: 10-2012 – 12-2012

Experience: iPhone application development

Role: iOS Mobile developer

Client: Telecom Italia Lab

Objectives: Implementation of a native mobile application for iPhone

Description: Implementation of a mobile application for iPhone for the use of aggregate information from social networks (Facebook, Twitter, FourSquare). The application shows the activities flow of the social circle, the user's contacts and a geographic location map with points of interest.

Technologies: Objective-C, iOS, UIKit

Period: 4-2012 – 9-2012

Experience: Development of a multi-platform mobile application

Role: Mobile developer

Client: Telecom Italia Lab

Objectives: Implementation of a multi-platform mobile application: Android, iPhone

Description: Implementation of a multi-platform mobile application on Android and iPhone for the use of aggregate information from social networks (Facebook, Twitter, FourSquare); the application shows the flow of the activities of the social circle, the user's contacts and a geographic location map with points of interest

Technologies: PhoneGap, jQuery Mobile, Sencha Touch

Period: 1-2012 – 4-2012

Experience: Windows Phone 7 application development

Role: Native mobile developer

Client: Vodafone Italia

Objectives: Implementation of a native Windows Phone 7 application (Vodafone SmartPass)

Description: Implementation of a mobile application on Windows Phone 7 for the use of payment services via prepaid virtual; the app makes available to the user access to information services, devices, self care and mobile couponing and advertising

Technologies: C#, XAML

Period: 11-2011 – 12-2011

Experience: iPhone app development with a multi-platform framework

Role: Mobile Developer

Client: Vodafone Italia

Objectives: Implementation of an application for iOS with a cross-platform framework

Description: Implementation of a mobile application platform iOS/iPhone for payment services via a virtual prepaid card; the app makes available to the user access to information services, devices, self care and mobile couponing and advertising

Technologies: Javascript, jQuery, Ruby, HTML/CSS, Rhomobile

Period: 9-2011 – 10-2011

Experience: Symbian app development with a multi-platform framework

Role: Mobile Developer

Client: Fondazione Veronesi

Objectives: Implementation of a mobile application on Symbian platform for Veronesi Foundation

Description: The application shows an agenda in which information about medical tests are displayed and recommended according on user's gender and age

Technologies: Javascript, jQuery, Ruby, HTML/CSS, Rhomobile

Period: 8-2011 – 9-2011

Experience: Facebook app development

Role: Full stack web developer

Client: Start up TLC

Objectives: Implementation of a Facebook application to manage a virtual currency

Description: Creation of a web application on the Facebook platform. The application allows the user to insert products that can be exchanged with other users via coupon

Technologies: Ruby, Ruby on Rails, Postgres, Javascript, jQuery, HTML/CSS

Period: 2-2010 – 9-2010

Experience: Web app development

Role: Full stack web developer

Client: Start up TLC

Objectives: Implementation of a web application for displaying meta-information about media content

Description: Implementation of a web application for displaying meta information related to digital content format MP21 profiled user; administrators can see on a control panel the number of times that the contents have been played, a time graph with reproductions for content in the last 30 days, while users can monitor the use of their digital content

Technologies: Ruby, Ruby on Rails, Postgres, Javascript, jQuery, jQuery UI, HTML/CSS

Period: 4-2010

Experience: Intranet web application development

Role: Full stack web developer

Client: Private clinical laboratory

Objectives: Implementation of a web application for managing cost estimation of chemical analysis

Description: Implementation of a web application for managing preventive chemical analysis. The system allows the grouping of analytes and provides information on the expected delivery date and cost calculation for the final client

Technologies: Ruby, Ruby on Rails, MySQL, Javascript, HTML/CSS

Period: 3-2009 – 6-2009

Experience: Intranet web application development

Role: Full stack web developer

Client: no profit corporation

Objectives: Implementation of an information retrieval system

Description: Implementation of a web application for managing information related to the services provided by the consultancy. In particular, personal information management, organizations and consultancies.

Technologies: Ruby, Ruby on Rails, Postgres, Javascript, HTML/CSS

Period: 5-2008 – 2-2009

Experience: Intranet web application development

Role: Full stack web developer

Client: Private institute of medical research

Objectives: Implementation of a web application for the management of clinical data for university research project

Description: Implementation of a web application for managing information on medical records of patients undergoing drug therapy; the system allows the recovery of the historical clinical data and a section in which to do research on parametric data

Technologies: Ruby, Ruby on Rails, MySQL, Javascript, HTML/CSS

Period: 4-2007 – 9-2007

Experience: Intranet web application development

Role: Full stack web developer

Client: Despar

Objectives: Implementation of a web application for managing reservations offers for supermarkets affiliates

Description: Implementation of a web application that allows managers to supermarkets affiliated to the brand, access to a control panel from which you can see incoming offers for product assortment and range of dates, in order to reserve those of interest via an user interface

Technologies: PHP, PRADO, Apache, SQL Server, MySQL

Period: 12-2006 – 1-2008

Experience: Evolutionary development of a Java application

Role: Java developer

Client: Despar

Objectives: Maintenance software for the management of fidelity cards

Description: Maintenance management software flow demands answers between headquarters and stores on the management of consumer loyalty cards

Technologies: Java, Swing/AWT, SQL Server

Period: 12-2006 – 1-2008

Experience: Evolutionary development of a Java application

Role: Java Developer

Client: Despar

Objectives: Maintenance of software for processing sales data

Description: Evolution of a software for processing data and producing specific reports

Technologies: Java, Swing/AWT, DB2 UDB

Education

Qualifications

2006: Bachelor Degree in Computer Science at Catania University – Score 108/110

1996: Maturità Scientifica. High school diploma at the "Liceo Don Bosco", Catania – Score 60/60

Languages

	Written	Spoken
Italian	Excellent	Excellent
English	Good	Good

Other activities

November 2009: backend implementation for online management of thematic seminars.

August 2009: Implementation back end web application for preventive chemical analysis.

June 2009: publication introductory article to the use of Test Driven Development with Ruby on Rails on Rails Magazine.

April 2009: [talk](#) to the Telecom Working Capital Barcamp entitled: Redis, a service with high performance for storage of data structures.

January 2009: participated in the foundation of [Catania Ruby User Group](#) and has organized regular meetings.

May 2008: begins designing web application for the management of clinical data management Leukemia Chronic Myelogenous.

Open source projects

Bitcoin Protocol: Bitcoin protocol implementation in Ruby
<https://github.com/altamic/bitcoin-protocol>

Binary Finery: library for reading/writing binary data in Ruby
https://github.com/altamic/binary_finery

Clinikr: web application for estimating quotes for clinical analysis and related examinations
<http://user:password@clinkr.com>

Notepad: Implementation of a notepad in Android with database SQLite
<https://github.com/altamic/notepad>

Maintenancer: web application for managing maintenance for machinery
<https://github.com/altamic/maintenancer>

Gestione Referti: web application for the acceptance of clinical tests with statistical functions
https://github.com/altamic/gestione_referti