



Ruben Roque Dias

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Profile

I'm an Engineer with a passion for programming and exploring new technologies. I began learning iOS development on my free time over two years ago, and have recently published an app called ExpenseWiz, an expense tracker for personal finances. I'm efficient, versatile and enjoy facing new challenges. I'm also a fast learner, and I'm always eager to increase and share my knowledge.

iOS Development



ExpenseWiz (solo developer / owner)

An expense tracker for personal finances. Uses CloudKit for data backup and sync, CoreData for local storage, programmatic layouts, and cocoapods for additional functionality (e.g. charts)

Experience

- I am a self-taught iOS developer. I've learned through online courses, books, and especially from working on personal projects. I've had the opportunity to explore interesting iOS and mobile-related technologies such as Firebase, RESTful services, OneSignal (push notifications), third-party library integration through cocoapods, among others.
- Please find a variety of demos of the most interesting projects I have worked on, along with more detail about the technologies used in each one, in [my portfolio](#).
- Below is a summary of what I believe to be my strong suits regarding iOS and app development in general.

iOS				Integrations	General
Swift UIKit + Animations	Core Data CloudKit	GCD RESTful APIs	Design Patterns	Cocoapods Firebase	Git / version control UI Design (Figma)

Education

Sep 2011 -
Mar 2017

Integrated Master in Electrical and Computers Engineering

at the Faculty of Engineering of the University of Porto, Portugal

- Majored in Automation, minored in Industrial Management. Worked with PLC/MES softwares, microprocessors (e.g. Arduino), embedded systems and industrial informatics. Also learned about enterprise information systems (web development, process management), decision support systems (heuristics, algorithms) and operations management

Master Thesis: Models for Improvement Management and Operational Performance

at INESC TEC, Portugal

- Explored Simulation as a tool for supporting decision making for manufacturing companies
- Technologies: AnyLogic (Java), InfluxDB (real-time database) and Grafana (real-time data visualization)

Sep 2014 -
Mar 2015

ERASMUS Exchange Program

at Wrocław University of Technology, Poland

- Went further on my specialisation, taking classes on Artificial Intelligence, Business and Commerce, among others

Work Experience

Jan 2019 -
Jan 2020

Simulation Developer and Consultant

- at INESC TEC, Portugal
- Developed simulations of factory environments (job-shop, production lines, etc) using Simio
 - Consulted with manufacturing companies to increase their operational performance
 - Trained new colleagues in developing with Simio

Apr 2018 -
Dec 2018

Front-End Web Developer

at Dreamo, Portugal

- Developed workflow management interfaces (progress tables, kanban-style boards with drag & drop, and others)
- Technologies: Javascript, jQuery, KendoUI, HTML and CSS, SQL Server / SQL, C# and .Net

Mar 2017 -
Mar 2017

Simulation Developer and Researcher

at INESC TEC, Portugal

- Developed simulations of factory environments (job-shop, production lines, etc) using Simio
- Worked within two european H2020 projects, ScalABLE and FASTEN

Sep 2015 -
Feb 2016

Teaching Assistant

at the Faculty of Engineering of the University of Porto, Portugal

- Assisted in laboratory classes of the Digital Systems Laboratory course