Ruben Roque Dias

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WORK EXPERIENCE

Sep 2020 - Present

iOS Developer
BOND Mobility, Belgium

- Maintained and improved existing functionality for an e-bike ride sharing app
- Handled the integration of third-party libraries like Google Maps, Firebase, Stripe, Jumio (ID verification) and others
- Implemented the transition to our in-house fleet management system (new suite of APIs and behaviours)
- Used React Native and Flutter to develop single-focused apps for clients

Jan 2019 - Jan 2020

Simulation Developer and Consultant
INESC TEC, Portugal

- Developed simulations of factory environments (job-shop, production lines, etc) using Simio and MS Excel
- Consulted with manufacturing companies to increase their operational performance

Apr 2018 - Dec 2018

Front-End Web Developer
Dreamo, Portugal

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

Mar 2017 - Mar 2018

Simulation Developer and Researcher
INESC TEC, Portugal

- Developed simulations of factory environments (job-shop, production lines, etc) using Simio and MS Excel
- Created an ETL tool using Java for processing, validating and exporting client data to serve as input to simulations
- Worked within two European H2020 projects with multiple international partners, ScalABLE and FASTEN

PERSONAL IOS DEVELOPMENT

My portfolio is available at www.rubenroquedias.com. In addition to the topics listed below, I have experience with general programming topics like git, REST APIs, unit testing, design patterns and UI design. I am also comfortable with app management for the App Store (submission, review process, etc).

ExpenseWiz (solo developer)

- Expense tracker for managing personal finances. Uses CoreData for local storage and CloudKit for cloud sync. Includes third-party library integrations (e.g. Charts). See demo.

CouchClub (solo developer)

- Watchlist tracker for movies and tv shows, with chatrooms for discussions with close friends. Uses a REST API for data discovery, CoreData for local storage, Firebase for authentication, database and push notifications. Uses design patterns like coordinator, builder, singleton. Responsive layouts for iPhone and iPad. See code, or see demo.

EDUCATION

Sep 2011 - Mar 2017

Master in Electrical and Computers Engineering
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
- Learned and worked with C, C++, Java, Web Development (HTML/CSS, Javascript, jQuery, PHP, SQL), among others

Master Thesis: Models for Improvement Management and Operational Performance
INESC TEC, Portugal

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

PERSONAL INTERESTS

Technology, fitness and exploring nature (climbing, hiking, running), watching tv shows and movies