

# Raul Mena

COMPUTER ENGINEERING STUDENT · SOFTWARE DEVELOPER

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## Education

### University of Florida

B.S. IN COMPUTER ENGINEERING

Gainesville, FL

Jan. 2015 - Dec. 2019

- GPA: 3.65
- Relevant Courses: Data Structures and Algorithms, Operating Systems, Database Systems, Fundamentals of Machine Learning.

## Skills

**Programming** Swift, Dart, Objective-C, Node.js, Python, Java, C/C++.

**Mobile** Xcode, Flutter, Firebase/Firestore, SQLite, Unit Testing, Git

**Web** Sails MVC, MySQL.

**UI/UX** Figma, Sketch.

## Experience

### iOS Developer

Freedom Scientific

Gainesville, FL

Sept. 2018 – May. 2019

- Developed an iOS app, FrienDetect, for Freedom Scientific, a company that builds accessibility products for the blind and visually impaired, as part of the University of Florida IPPD program.
- The app alerts the user when other users of the app (who are also his or her friends) are nearby, by using Bluetooth.
- Member of a team of five undergraduate students from the University of Florida, charged with the task of building FrienDetect.
- Communicated with the client on a weekly basis and split the work among team members by following the SCRUM methodology.
- The app offers a real-time behavior, so that when two friends come within range (~ 100 ft.) they are both notified immediately. The user can know at all times who is nearby.
- The user also has the options of silencing notifications while still discovering nearby friends, plus blocking any undesired contact.
- FrienDetect is very low energy, with the app running constantly in the background while using very little battery.
- See the poster, video, blog and Recommendation Letter from Freedom Scientific's CTO on my Linked In profile.
- Find the app on Freedom Scientific's GitHub account (FreedomScientific).

## Published Apps

### PocketPostcards

Jan. 2019 – June, 2019

- Developed PocketPostcards, an iOS app for organizing and managing pictures, with a theme of nature.
- The user can create an account via email authentication, and immediately start importing images into the app from two sources, the camera roll and from Instagram public accounts.
- The app offers limited cloud storage for uploading images to the cloud, while keeping the original resolution. The user can log into the app from any iOS device and download the images under their account.
- Built in Xcode with Swift 4 and UIKit framework. Authentication and cloud storage provided by Google Firestore.
- For link to the App Store visit [www.raulmena.dev](http://www.raulmena.dev). For a short demo, visit my GitHub account.

### MoviesDB

Dec. 2018 – Apr. 2019

- A beautiful movies app that fetches its content from The Movies Database (TMDb), with a user-customizable layout and real-time search on the movies database API.
- The app locates the movie trailer on YouTube and presents it to the user via a Web View.
- Beautiful UI features like a stretchy-header, horizontal scrolling, blurs, shadows and animations.
- The app recommends similar movies by querying the API with its own algorithm.
- Built in Xcode with Swift 4 and UIKit framework.
- For link to the App Store visit [www.raulmena.dev](http://www.raulmena.dev). For a short demo, visit my GitHub account.

## Other Projects

### Petits Contes

Jul. 2019 – Present

- Currently working on Petits Contes (Little Stories), a cross-platform app for both iOS and Android, that offers short stories and tales in 3 languages.
- The app allows the user to change the app's language and also to tap on single words on any story and see its definition, plus a translation to the other two languages. The app scrapes the Larousse French dictionary and the Spanish dictionary of the Royal Academy. English comes from the device built-in dictionary.
- Built in VS Code with Flutter Framework and Dart language, Material UI and custom fonts and icons. Content is hosted on Google Firestore.