# SPENCER FORREST

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🖥 https://spencer-forrest-java.github.io/en
French Citizen
Lyon, France

## PERSONAL PROFILE

Developer reading books and articles about software architecture in order to improve the creation of business rule centered systems and the decoupling of different modules that constitute those systems which facilitates the addition, modification and deletion of features.

## SKILLS

- ✓ Java
- ✓ Spring Boot
- ✓ Spring Web MVC
- ✓ Spring Security
- ✓ Hibernate ORM
- ✓ SQL
- ✓ TypeScript
- ✓ Angular 11
- ✓ Clean Architecture
- ✓ SOLID principles
- ✓ Test Driven Development (TDD)
- ✓ SCRUM methodology

## PROJECTS & CAREER

**USER MANAGEMENT APPLICATION** - https://github.com/spencer-forrest-java/spring-user-management-client
Management of Users' information.
- ➤ Managed Dependencies with Maven.
- ➤ Created a RESTful web service with Spring Boot and Spring Web MVC.
- ➤ Managed endpoint security with roles and authorities using Spring Security.
- ➤ Secured requests received by the web service with JWT (JSON Web Token).
- ➤ Locked accounts targeted by a brute force attack.
- ➤ Encrypted passwords before saving them into the database.
- ➤ Connected the web application to the MySQL database with JDBC.
- ➤ Made CRUD operation possible using Hibernate ORM and Spring Data JPA.
- ➤ Sent auto generated passwords using Java Mail API.
- ➤ Created an Angular 11 single page application.
- ➤ Used Bootstrap 4 and CSS 3 in order to create a responsive web application.

**EMPLOYEE DIRECTORY** - https://github.com/spencer-forrest-java/spring-mvc-thymeleaf-employee
Management of Employees' information.
- ➤ Managed Dependencies with Maven.
- ➤ Created a monolithic web application with Spring boot and Spring Web MVC.
- ➤ Connected the web application to the MySQL database with JDBC.
- ➤ Made CRUD operation possible using Hibernate ORM and Spring Data JPA.
- ➤ Created a user interface by using the Thymeleaf template engine.
- ➤ Used Bootstrap 4 and CSS 3 in order to create a responsive web application.

**GRIDY APPLICATION** - https://github.com/supensa/oc_ios_project5
The user creates a puzzle using the camera or photo library and solves it with the less moves possible, 16 being the best score.
- ➤ Created a puzzle game programmatically without any storyboard.
- ➤ Enabled the use of the device's camera.
- ➤ Enabled the use of the device's photo library.
- ➤ Laid out the views programmatically using auto layout.
- ➤ Coded responsive layout for iPads and iPhones in portrait and landscape using size classes.
- ➤ Programmed a drag and drop functionality for some views using gesture recognizers.
- ➤ Used UIActivityViewController to allow the user to share some application content through other applications (e.g. email, social media…).

[**FocusOn**](https://github.com/supensa/FocusOn) **-** https://github.com/supensa/FocusOn
The user completes up to three tasks to complete a daily goal. The user can see the history and progress of the tasks and goals.
➤ Created a storyboard based application.
➤ Separated application in three parts using UITabBarController.
➤ Created bar charts using Charts framework.
➤ Used UISegmentedControl to separate two bar charts.
➤ Created some visual animation upon goal completion using UIView.animate() and CGAffineTransform().
➤ Enabled local user notification with time interval to remind user of the application during the day.
➤ Retrieve, save, update and delete some data on local device using Core Data.
➤ Display data using UITableView and delegation pattern.
➤ Used XCTest for unit testing with a coverage of 74%.

[**PopCornSwirl**](https://github.com/supensa/PopCornSwirlProject) **-** https://github.com/supensa/PopCornSwirlProject
The user adds/removes movies to their watch/favorite list and can write notes about the movies.
➤ Created a storyboard based application.
➤ Used CocoaPods dependency manager for Alamofire.
➤ Used AlamoFire framework to connect to a webservice.
➤ Display Ads using Google AdMob.
➤ Separated application in three parts using UITabBarController.
➤ Connect to a webservice for authentication.
➤ Retrieve, save, update and delete data to the cloud using a webservice.
➤ Retrieve, save, update and delete some data on local device using Core Data.
➤ Display data using UITableView and delegation pattern.

**Student Web Developer**                                                        **May 2015 – October 2016**
Enterprise of Information System (EIS)
➤ Front-end development:
  ✓ Use of HTML.
  ✓ Use of CSS.
➤ Back-end development using java:
  ✓ Use of Spring Web MVC framework.
  ✓ Use of Hibernate ORM framework.
➤ Use of SQL to directly query the database.
➤ Creation of native Android application using Java.
  ✓ Request a RESTful webservice.
  ✓ Parse JSON response.

**Student Front-End Developer**                                              **October 2013 – May 2015**
Joseph F. Smith Library
➤ Front-end development using HTML, Javascript and CSS.
➤ Use of the javascript framework JQuery.

# EDUCATION

**Bachelor's Degree – iOS Developer**                                               **October 2019**
OpenClassrooms                                                                        Lyon, France

**Bachelor of Science in Computer Science**                                      **November 2016**
Brigham Young University Hawaii                                                       Hawaii, USA
• Grade Point Average: 3.795 / 4.00.
• Specialization: Programming et Software Engineering.

# ADDITIONAL INFORMATION

Languages:
• English (Fluent).
• French (Native).