Getting Started with Spring Data REST

Getting Started
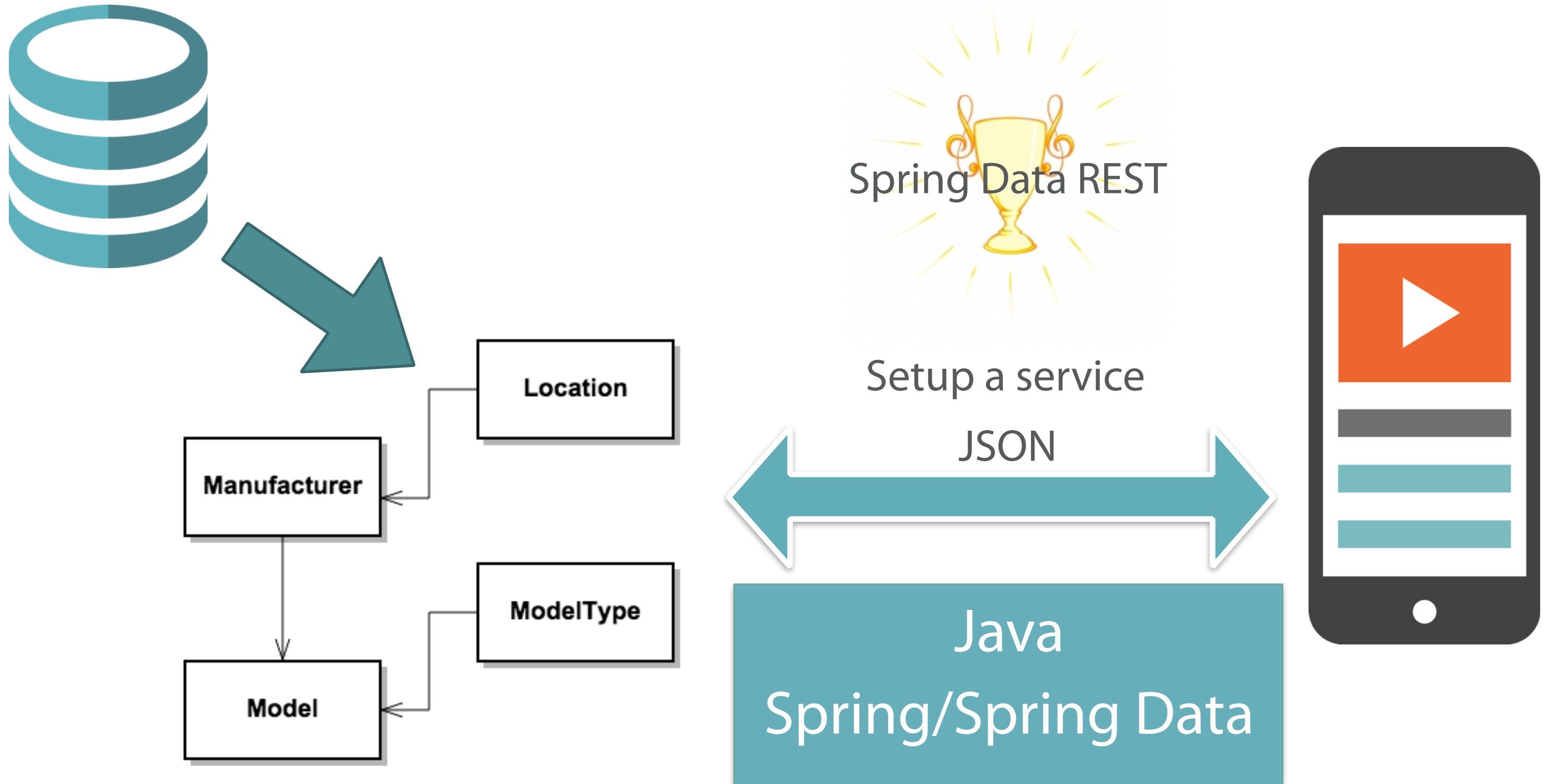
Dan Bunker
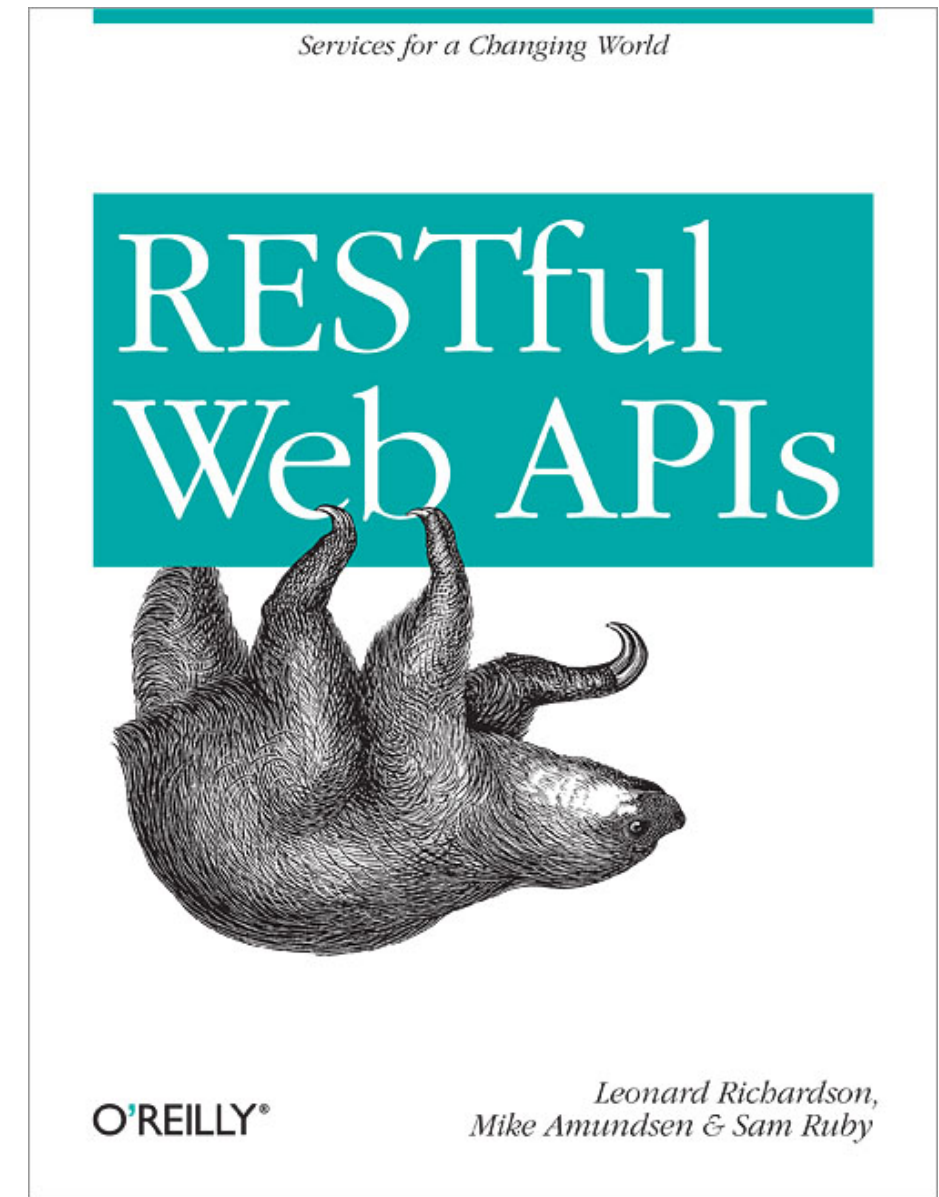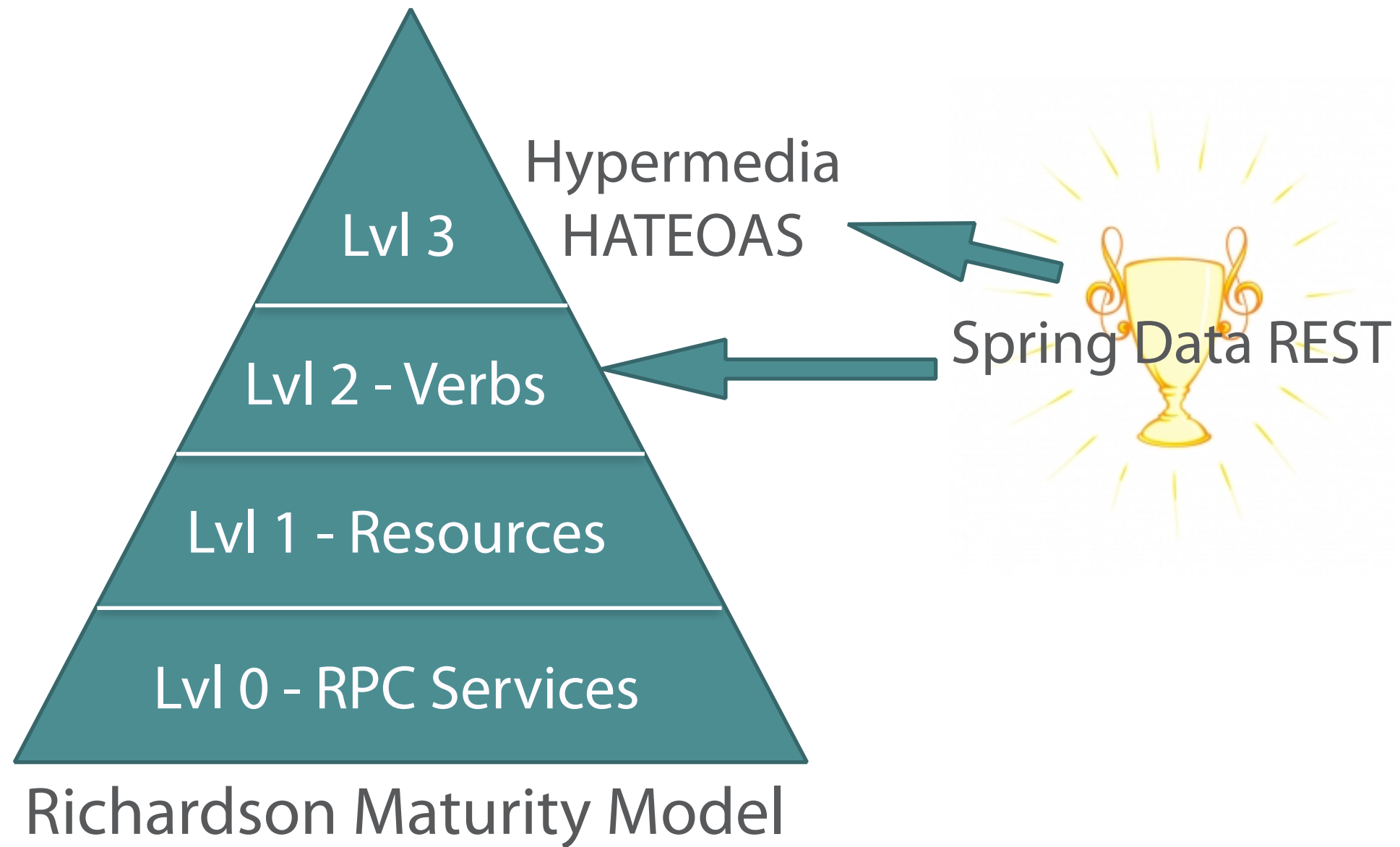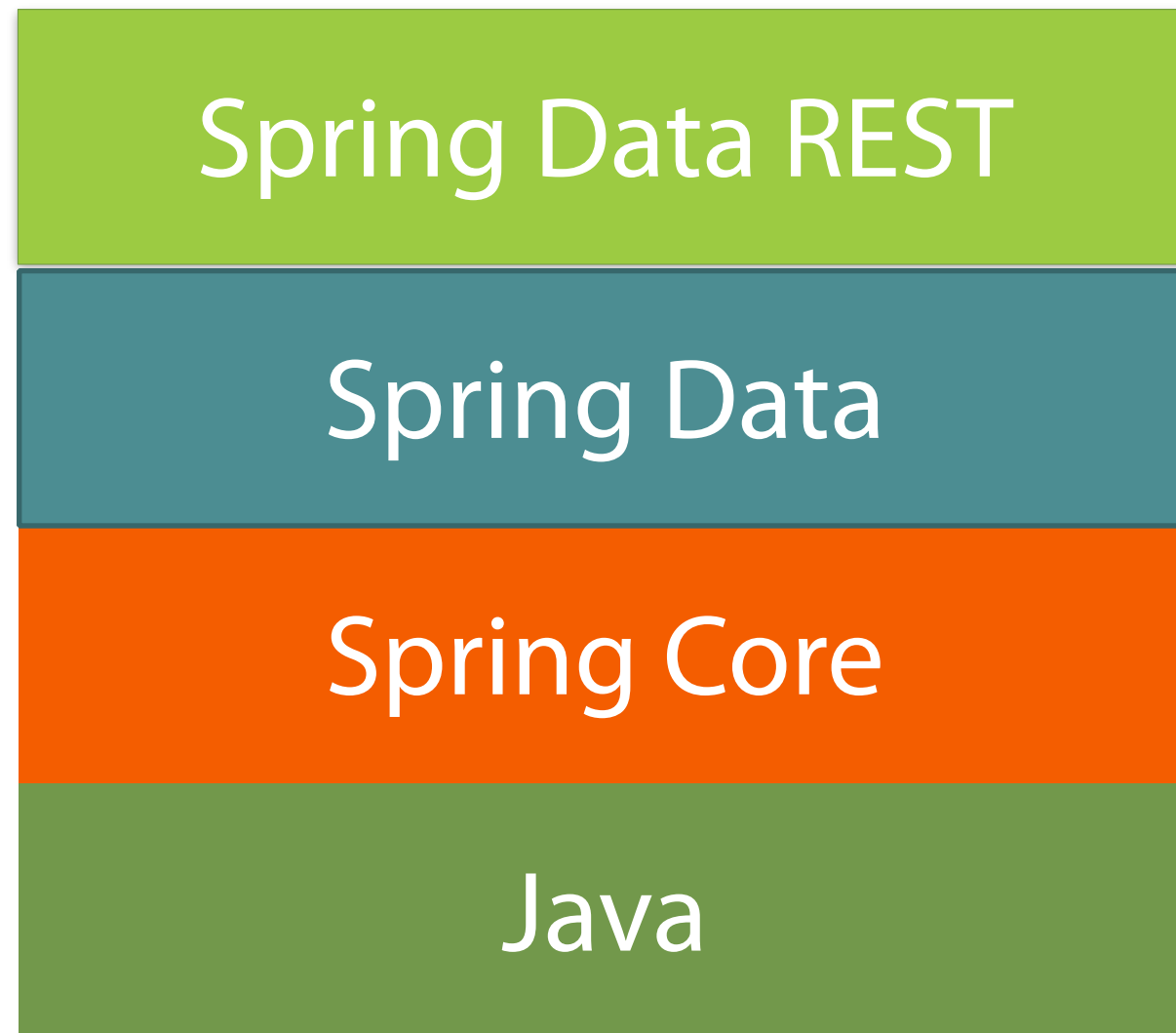
http://www.linkedin.com/in/bunkerdan

What Can Spring Data REST Do?

Location

Manufacturer

ModelType

Model

Spring Data REST

Setup a service

JSON

Java
Spring/Spring Data

Tip: A Short Lecture on REST

Lvl 3

Hypermedia
HATEOAS

Lvl 2 - Verbs

Spring Data REST

Lvl 1 - Resources

Lvl 0 - RPC Services

Richardson Maturity Model

Services for a Changing World

RESTful
Web APIs

O'REILLY®

Leonard Richardson,
Mike Amundsen & Sam Ruby

Learning Path

Spring Data REST	REST, Spring MVC
Spring Data	JPA/JDBC/etc. Databases
Spring Core	
Java	

Pluralsight Courses

- *Java Fundamentals, Part 1 & 2*
  - John Sonmez
- *Spring Fundamentals*
  - Bryan Hansen
- *Spring with JPA and Hibernate*
  - Bryan Hansen
- *Introduction to Spring MVC*
  - Bryan Hansen
- *REST Fundamentals*
  - Howard Dierking
- *Getting Started with Spring Data JPA*
  - Dan Bunker

Prerequisites

Prerequisites

- git
  - http://git-scm.com
- JDK 1.8+
  - http://www.oracle.com
- Maven 3+
  - http://maven.apache.org
- IDE of your choice
  - http://spring.io/tools

```
git --version
```

```
javac -version
```

http://www.oracle.com/technetwork/java/javase/downloads/index.html

```
mvn --version
```

M2_HOME   JAVA_HOME

Getting Started

Basic Spring Data JPA Project

- https://github.com/dlbunker/ps-guitar-rest
- Standard JPA
- H2 embedded relational database
- JUnit tests
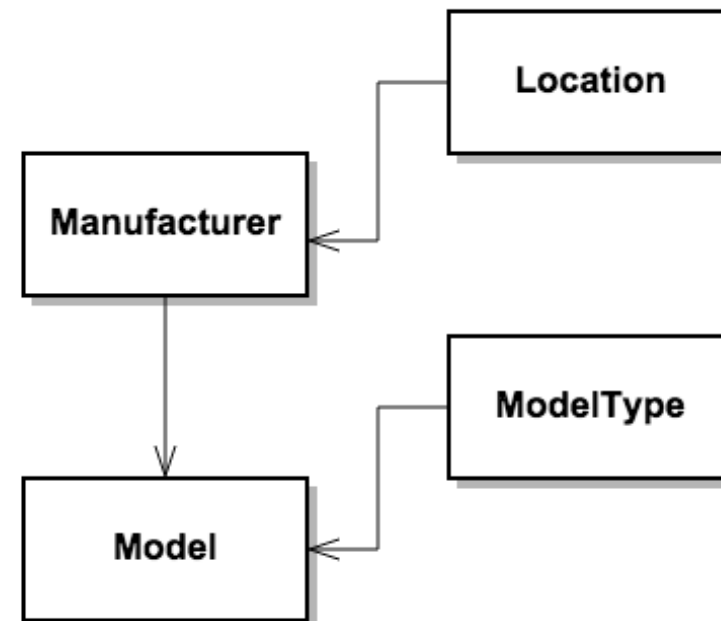
Integrating Spring Data REST

```xml
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-data-rest</artif
</dependency>
```

```xml
<dependency>
  <groupId>org.springframework.data</groupId>
  <artifactId>spring-data-rest-webmvc</artifactId>
  <version>2.3.0.RELEASE</version>
</dependency>
```

Integrating Spring Data REST

```java
@Configuration
public class CustomizedRestMvcConfiguration extends
RepositoryRestMvcConfiguration {
  @Override
  public RepositoryRestConfiguration config() {
    RepositoryRestConfiguration config = super.config();
    config.setBasePath("/api");
    return config;
  }
}
```

Supported Technologies

Summary

REST definition

Learning path and prerequisites

Installed our sample project

Integrated Spring Data REST

Spring Data REST's supported technologies