# José Francisco Antunes

## Software Architecture\Full-stack Developer

✉ jfantunes.work@gmail.com    📞 +351911934114    🗓 1986 May 25    🏴 Portuguese

in jose-francisco-antunes    ○ jfantunes    🐦 @JosFrancisco86    ↖ Personal WebSite

---

## 👤 Profile

Senior Software Developer and Software Architect with experience in several edge technologies, using always the best practices and always looking for new technologies that helps to improve application efficiency and modularity.

---

## 💼 Professional Experience

**2021 May – present**
Portugal

**Co-founder / Software IT Architect / Full-stack Developer**
**Arg Software** ↗

Co-founder of a software house to help people turn their ideas into reliable and scalable software.

**Current and Past Clients:**
Angry Ventures; Hopupon; Hostelier; Mb-Netzwerk; Mojaloop Foundation; North Music Group; SEFA; SkyTracks; Mojaloop (please see the projects section for more detail about the projects done).

**Main duties:**
Full-stack Developer; Software Architecture; Delivering the best scalable solutions;

**Software development process:**
- Scrum\Kanban;
- Code Reviews;
- Unit\Integration testing;

**Technologies used:**
- Backend: .Net, NodeJs, Express.js, koa.js, EntityFramework, Mediatr, TypeORM, Knex, Swagger, TypeDI, Autofac, Migrations; RabbitMQ;
- Frontend: Javascript, Typescript, Angular, React, Redux, Webpack, Jest, jQuery;
- Database: PostgreSQL, MySQL, MongoDB;
- CI\CD: AWS, Docker, Octopus Deploy; BitBucket Pipelines, Github actions;
- Version Control System: Git

**2018 Oct – 2021 Jan**
Los Angeles,
United States

**Software IT Architect / Senior Backend Developer / Scrum Master**
**North Music Group,LLC** ↗
Working remotely.
Project connected to the music industry in general.

**Main duties:**
- Design Application Backend Architecture;
- Code Refactor;
- Code Review ;
- Act as a Scrum Coach;
- Implement the CI\CD pipeline;
- Senior Software Developer;
- Implement System Architecture, using: Onion Architecture and CQRS combined with DDD for backend components; SOLID principles; CD\CI development;

**Architecture Patterns:**
- Redux Architecture pattern for the fronted components;
- Domain-Driven Design for backend components;
- SOLID principles;

**Software development process:**
- Scrum for sprint backlog management using Jira;
- Code Reviews;
- Unit Testing;

**Technologies used in the project:**
- Backend:C#; WebApi; gRPC;.Net Core; Migrations; DbUp; SignalR; Entity Framework; AutoFac;

Mediatr; HangFire; Ocelot; NSwag; Swagger; XUnit; Moq; FakeItEasy;
- Database: PostgreSQL;
- CI\CD: AWS, Docker, Octopus Deploy; BitBucket Pipelines;
- Version Control System: Git

2017 May – 2019 Jun
Michigan, United States

**Software IT Architect / Fullstack Developer / Scrum Master**
**Micron Manufacturing, Inc.** ⬈
Working remotely.
The project consists of a web application using IoT for data production management.

**Main duties:**
- Design Application Architecture;
- Code Refactor Coaching other team members;
- Code Review; Act as a Scrum Coach;
- Implement the CI\CD pipeline; Senior Software Developer;
- Implement Architecture Patterns, such as Redux Architecture pattern for the fronted components; Domain-Driven Design for backend components; SOLID principles; CD\CI development;

**Software development process:**

- Scrum for sprint backlog management using Jira;
- Code Reviews;
- Unit Testing;

**Technologies used in the project:**
- Backend: C#; WebApi; .Net Core; Migrations; Entity Framework; Structure Map; AutoMapper; RabbitMQ; Mass Transit; XUnit; Moq;
- Frontend: Javascript; Angular2/4/5/6/7/8; Redux(ngRX); RxJs; Gulp; Typescript; Jest; Webpack.
- Database: PostgreSQL.
- CI\CD: TeamCity; Octopus Deploy;
- Version Control System: Git

2016 Nov – 2018 Oct
Porto, Portugal

**Software IT Architect / Fullstack Developer**
**EQS Digital** ⬈
Technical Leader in the development of an ERP for the industry in general.

**Main duties:**
- Design Application Architecture;
- Code Refactor
- Coaching other team members;
- Code Review ;
- Act as a Scrum Coach;
- Senior Software Developer;

**Architecture Patterns:**
- Redux Architecture pattern for the fronted components;
- Domain-Driven Design for backend components;
- SOLID principles;

**Software development process:**
- Scrum for sprint backlog management;
- Pair Programming;
- Code Reviews;
- Unit Testing;

**Technologies:**
- Backend: C#, WebApi, .Net Core, T4 templates, Entity Framework, Structure Map, AutoMapper, Moq;
- Frontend: Javascript, Angular2/4/5, Redux(ngRX), RxJs, Gulp, Typescript, Webpack;
- Database: MSSQL Server;

2016 Jun – 2016 Oct
Zurich, Switzerland

**Fullstack Developer**
**Ludopoli** ⧉

Working remotely.
Responsible for the development of components for a key product of the company, using a DDD approach for the backend components.

**Software development process:**
- Scrum;
- Pair Programming;
- Code review;
- Continuous Integration (Gulp Tasks +TeamCity);

**Technologies:**
- Backend: C#, WebApi, .Net Core;
- Frontend: TypeScript, Backbone.js/Marionettejs, Gulp, Bower;
- Testing: NUnit, Jasmine, Chai;
- Databases: MongoDB;

2013 Nov – 2016 Jun
Lisbon, Portugal

**Software Developer**
**Celfinet** ⧉

Responsible for developing components and modules for several products and internal tools.
Refactored legacy code and improved code quality and overall design to meet with software development best practices.

**Software development process:**
- Scrum;
- Test-Driven Development;
- Pair Programming;
- Code Reviews;
- Continuous Integration + Continuous Deploy (Grunt Tasks + Octopus);

**Architecture Patterns:**
- Clean Architecture/Hexagonal Architecture for backend components;
- SOLID principles;

**Technologies:**
- Backend: C#, WebApi,ASP.NET MVC, T4 templates;
- Frontend: Javascript, AngularJS, jQuery, GoogleClosure, Browserify, Peg.js, Npm, jsDoc, Grunt;

- TDD: Nunit + JustMock, Karma + Mocha + Sinon + Chai;
- Database: MSSQL Server, Mongodb, Postgres/PostGis, InfoBright;
- Message Queue: RabbitMQ;
- GIS: Openlayers, Geoserver;

2012 Sep – 2013 Oct
Porto, Portugal

**Software Developer**
**InfoPortugal** ⬀

Responsible for developing components, mobile apps, and an award-winning product that represents Portugal.

**Technologies:**
- Backend: Python, Java, PHP; Mapnik;
- Frontend: Javascript, JQuery, CSS; - Frameworks: Django, Drupal, AndroidSDK, Openlayers.
- Database: MySQL, Postgres/PostGIS, SQLite;

## 🗀 Projects

2022 Aug – present

**Mojaloop** ⬀
**Full stack developer**

- ARG Client

**Technologies used:**
Typescript
Express
Nodejs
Kafka
Angular
RxJs
Docker
MongoDb
Elastic Search
Kibana

2021 Jun – 2022 Jul

**Skytracks** ⬀
**Full stack developer**

- ARG Client

**Technologies used:**
Typescript
Koa
Nodejs
RxJs
Bull.js
Angular
Jest
Docker
MySQL

2020 Jun – 2022 Aug

**Dokutar** ⬀
**Software Architecture, Full stack developer**

- ARG Client

**Technologies used:**
Typescript;

NodeJs;
Express.js;
Routing-Controllers;
Swagger;
Passport.js;
TypeDI;
TypeORM;
Jest;
MySQL

2018 Nov – 2019 May    **Hopupon** ⧉
**Software Architecture**

- ARG Client

**Technologies used:**
Python
Pandas
Flask
PostgreSQL
SQLAlchemy
Werkzeug-Cache

2016 Oct – 2017 Apr    **Smart Refill** ⧉
**Full stack developer**

**Technologies used:**
Node.js
Express.js
Jade template
Angular2
AngularJS
Webpack
C
FireBase
Karma
Mocha
Chai
Heroku

## ⧉ Awards

2013 Nov    **World's Leading Tourism Authority Website 2013**
**World Travel Awards**
VisitPortugal nominated for "World's Leading Tourism Authority Website 2013"

## ⧉ Certificates

**https://www.coursera.org/account/accomplishments/certificate/28CDDLF6BAXB**
*Agile with Jira by Atlassian - Coursera Course Certificates*

## ⧉ Education

Porto, Portugal    **Science and Computer Engineering**
**Universidade do Porto**

Porto, Portugal    **Master's degree in Software Architecture**
**Universidade do Porto**

## 🌐 Languages

English      ● ● ● ● ○        Portuguese      ● ● ● ● ●

Spanish      ● ● ○ ○ ○