José Francisco Antunes

Software Architecture

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🪪 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
Arg Software ⧉
Co-founder of a software house to help people turning their ideas into reliable and scalable software

Main duties:
Client gathering and handling; Technical discussions with a focus on the client problems; 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;
- 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

**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

2021 Jun – present

Skytracks ⧉
Full stack developer
  Technologies used:
  Typescript
  Koa
  Nodejs
  RxJs
  Bull.js
  Angular
  Jest
  Docker
  MySQL

2020 Jun – present

Dokutar ⧉
Software Architecture, Full stack developer

  Technologies used:
  Typescript;
  NodeJs;
  Express.js;
  Routing-Controllers;
  Swagger;
  Passport.js;
  TypeDI;
  TypeORM;
  Jest;
  MySQL

2018 Nov – 2019 May

Hopupon ⧉
Software Architecture

  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 | ● ● ○ ○ ○ | | |