

Raffaele Bua

Portfolio

Satellite Image Processor Platform

September 2015 to Present

Description

[Open Source](#) plugin based platform able to download and process EO satellite data. It is written in [Python](#) and C++. Downloads and Processes are multithreaded and schedulable. The Platform is configurable and the *processor* is extendible via C++ plugins.

Responsibilities

Project Manager, Software Architect, Software Developer

Technologies

Python 3.4, C++, [GDAL](#) library, [SQLAlchemy](#) ORM, Flask, Postgresql, Supervisor, Valgrind, Nginx, Docker, Docker Compose.

Link

Official documentation: <https://goo.gl/tNBcY0>

Source code: <https://goo.gl/snTyBk>

Satellite Data Hub - Application

September 2015 to Present

Description

SPA web application developed using modern web technologies, modular, dynamic and extensible. Exploiting web components.

Responsibilities

Software Architect, Lead programmer in team of three people. Customer relations. Full-stack Developer.

Technologies

MVC, Web Components, ECMAScript 6, Javascript, Polymer 1.0, Java, Spring, RESTful Design patterns

Link

source code: <https://goo.gl/3v4sBv>

architecture documentation: <https://goo.gl/FFWE2Q>

Data Hub System add-on for Sentinel-2 satellite products ingestion

May 2015 to Present

Description

Addon of Data Hub System to ingest Sentinel-2 products, To map metadata of products with Solr indexes, to provide full text search.

Responsibilities

Software Developer

Technologies

Solr, OWL, java, Xquery

Link

<https://goo.gl/P4Tqt9>

Sardegna Clima Android App

June 2014 to Present

Description

Sardinia weather Android application. Sardegna Clima Pro provides the measured weather parameters from more than 70 stations installed around Sardinia with real-time updates.

Responsibilities

Software Architect, Team leader, Software developer

Technologies

Android, Apache Cordova, AngularJS, Bootstrap

Link

app: <https://goo.gl/SAKgQu>

code: <https://goo.gl/ym9TmE>

Book Explorer (Open source iOS App)

April 2014 to Present

Description

Book Explorer is an open source iOS App to discover books and authors, using google freebase api.

Responsibilities

Software Architect, Software Developer

Technologies

Design and Develop iOS App - XCode - Objective-C - Google Freebase APIs - Git - Github

Link

<http://goo.gl/FJlRE>

Sardegna Clima Backend Platform

June 2014 to Present

Description

Sardegna-Clima Onlus Backend Platform to store the history of measures from Sardinian weather stations.

Responsibilities

Software Architect and Software developer

Technologies

PHP 5, Slim Framework, Doctrine (ORM), MYSQL

Link

<https://goo.gl/3zHcNV>

eMailChef

June 2013 - November 2014

Description

Email Marketing Service Platform.

Responsibilities

Full-stack Web Developer.

Technologies

PHP 5 Slim Framework, Mysql, AngularJS, Bootstrap

Link

code: <http://emailchef.com/>

Turbo smtp Dashboard

March 2013 to May 2013

Description

SMTP service dashboard.

Responsibilities

Full-stack Web Developer

Technologies

RESTful, SPA, MySQL, nodejs, expressjs

Link

<http://goo.gl/ST1UMC>

Gente Veneta Backend web services

June 2011 to August 2011

Description

Backend web services for Gente Veneta mobile application, to manage, purchase, download Gente Veneta volume.

Responsibilities

Backend software developer

Technologies

Mysql Developer - Java Servlet Developer

Link

<http://goo.gl/BPNohZ>

Navionics Rating and review system

April 2011 to July 2011

Description

Rating and review system for the Navionics Navigation app.

Responsibilities

iOS Developer

Technologies

Objective-C, C++

Link

<http://goo.gl/d7Qel2>

Navionics Tide prediction system

March 2011 to April 2011

Description

Tide prediction feature for iOS Navionics Mobile App.

Responsibilities

iOS Developer

Technologies

Objective-C, C/C++

Link

<http://goo.gl/d7Qel2>

Ledout

November 2012

Description

E-Commerce website to sell led lights.

Responsibilities

Fullstack web developer

Technologies

PHP 5, Symfony

Open source project management

March 2015 to Present

Description

Space data dissemination open source project infrastructure maintenance and development.

Responsibilities

Engineer

Technologies

GITHUB, Jekyll, Java, Maven, Nexus OSS, Apache, Jira

Link

<http://goo.gl/IKDyzu>
