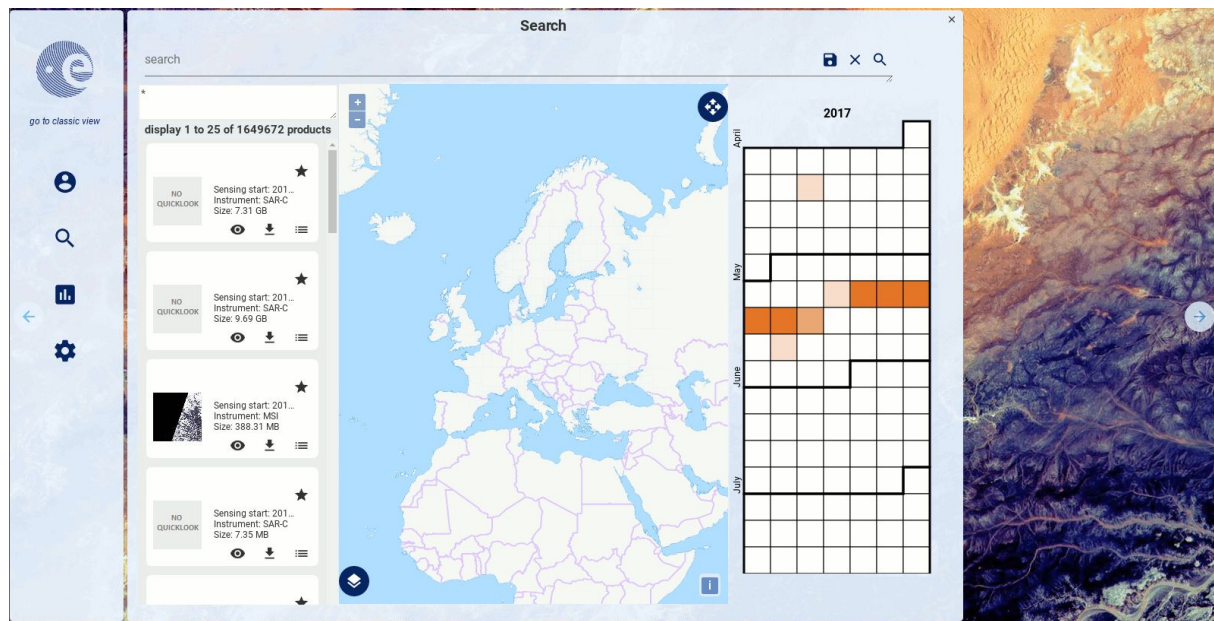


Raffaele Bua

Portfolio

Web Application for satellite data dissemination (European Space Agency)

September 2015 to Present



Description

Web application with client SPA and RESTful APIs for European Space Agency, modular, dynamic and extensible. Exploiting web components (Polymer 1.0) and Java Spring.

Responsibilities

Project Manager, Software Architect and Lead programmer in team of three people.

Technologies

MVC, Web Components, Java, Spring, RESTful Design patterns.

Link

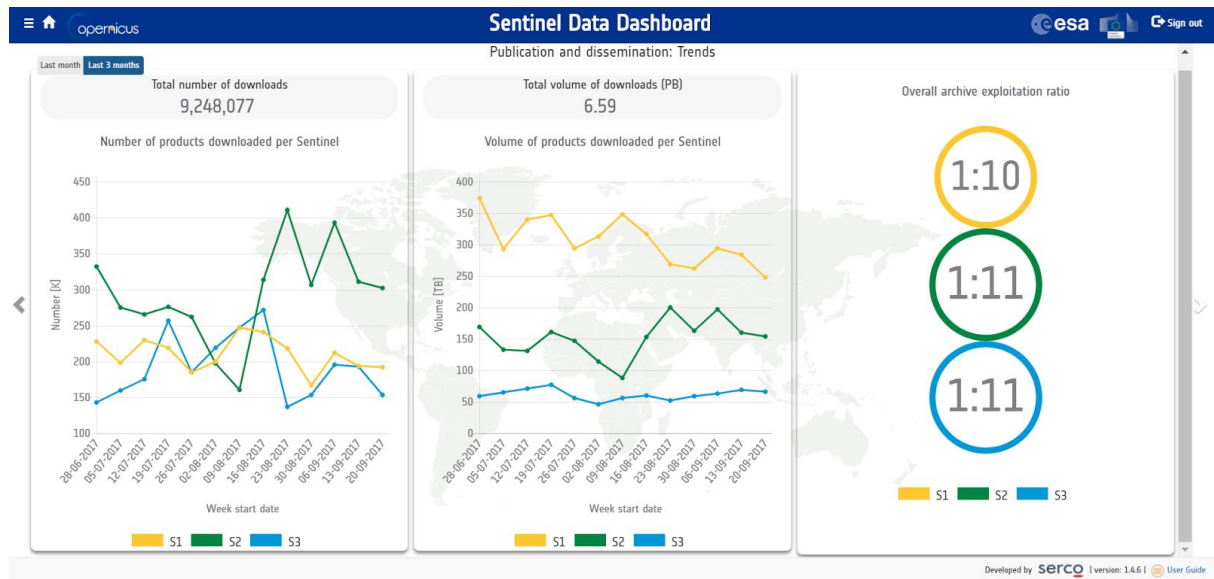
source code: <https://goo.gl/odHryZ>

documentation: <https://goo.gl/rU2NmH>

online: <https://goo.gl/ptkebt>

European Commission data dissemination statistics dashboard

December 2016 to Present



Description

Web application to show real-time statistics of European Space Agency Sentinel Satellites dissemination statistics.

Responsibilities

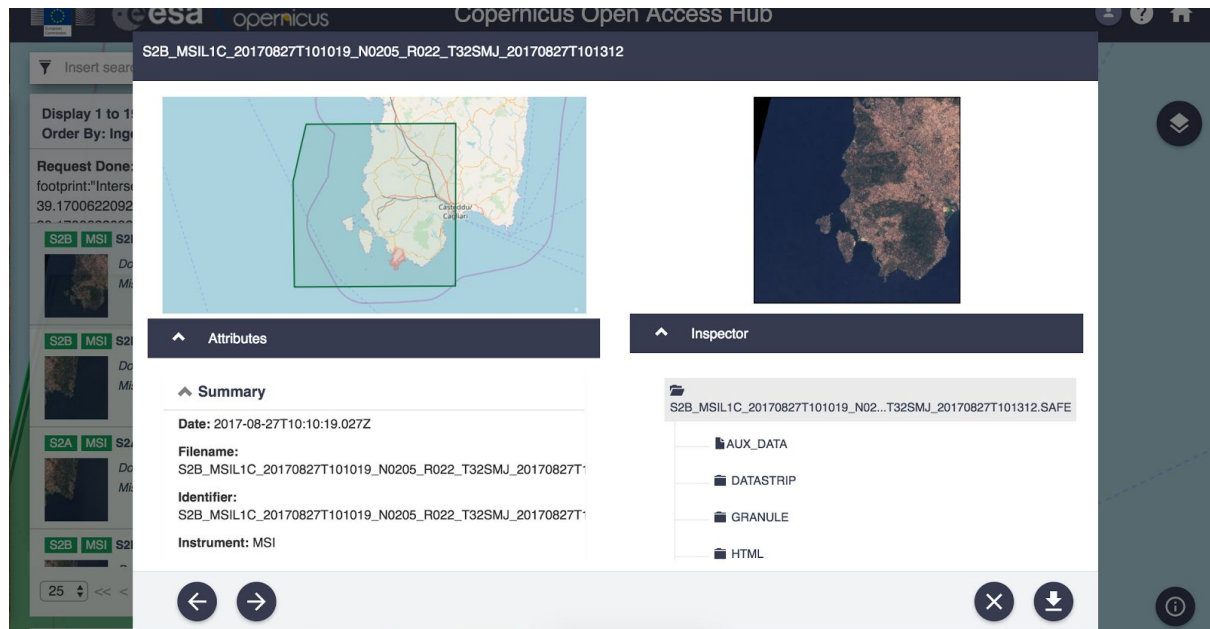
Software Developer

Technologies

HTML5, D3.js, Chart.js, RESTful, Python, Postgres

ESA Sentinels data dissemination Portal

November 2015 to Present



Description

Official ESA Data Hub System for [Sentinel Satellites](#). Front-end: SPA Web client, Back-end: RESTful/ODATA APIs. Agile Software development.

Responsibilities

Software Architect and Software Developer

Technologies

AngularJS, Javascript, RESTful, Java, Spring.

Link

online: <https://goo.gl/M2sxM7>

source code : <https://goo.gl/ogHEod>

Satellite Image Processing Platform

October 2016 to February 2017



Description

Open Source plugin based platform able to download and process Earth Observation 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

Software Architect, Software Developer.

Technologies

Python 3.4, C++, GDAL library, SQLAlchemy ORM, Flask, Postgresql, Supervisor, Valgrind, Nginx, Docker, Docker Compose.

Link

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

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

Sentinel-2 satellite products ingestion for Data Hub System

May 2015 to Present

Description

Module of Data Hub System to ingest Sentinel-2 satellite products, to map products metadata in Solr indexes providing full text search.

Responsibilities

Software Developer.

Technologies

Java, OWL, Solr, Xquery.

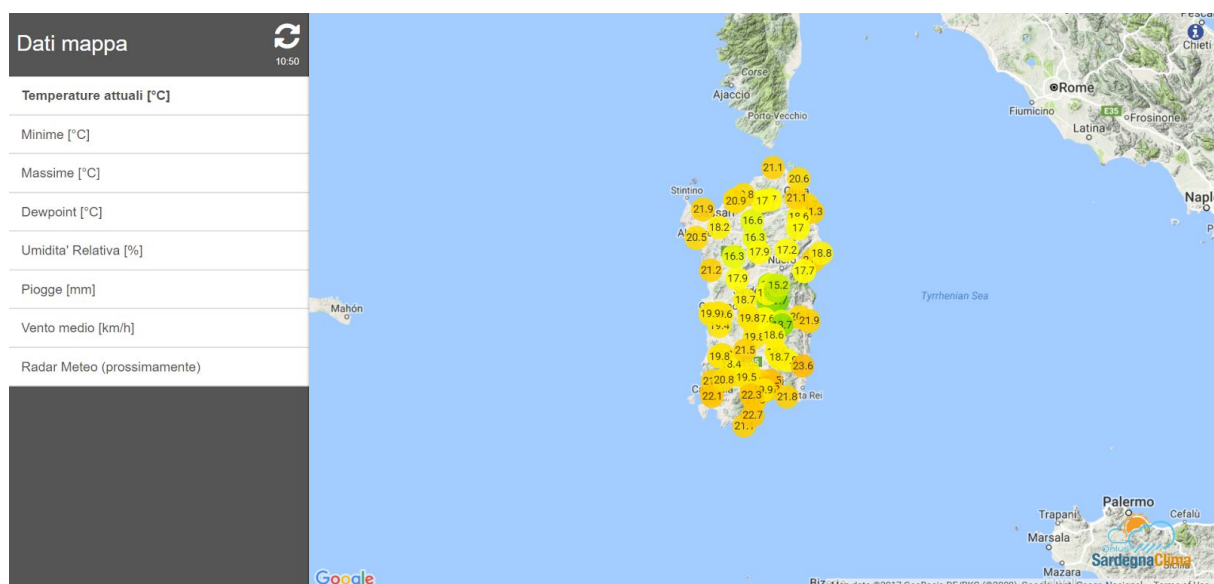
Link

code: <https://goo.gl/P4Tqt9>

portal: <https://goo.gl/M2sxM7>

Weather stations network platform

June 2014 to Present



Description

Sardegna-Clima Non Profit Organization backend platform to store the history of measures from Sardinian weather stations network.

Responsibilities

Software Architect and Software developer.

Technologies

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

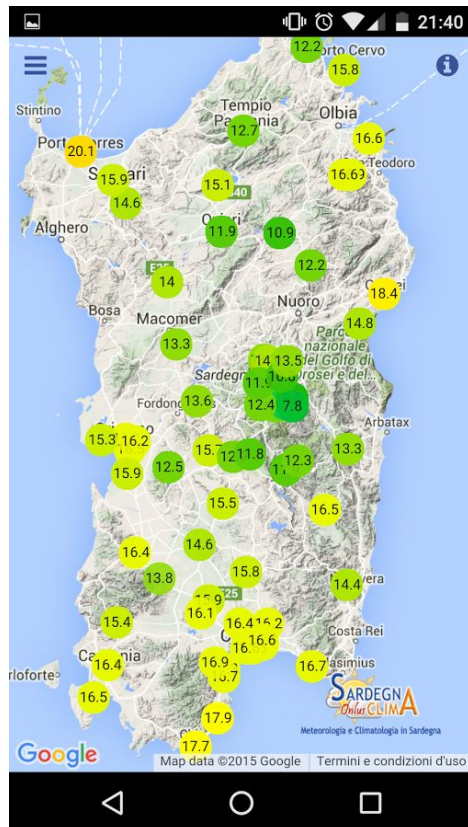
Link

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

web client: <https://goo.gl/2KVvi8>

Near real time Sardinian weather measures Android App

June 2014 to March 2016



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.

Technologies

Android, Apache Cordova, AngularJS.

Link

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

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

web: <https://goo.gl/2KVvi8>

eMailChef

June 2013 - November 2014

Description

Email Marketing Service Platform (like *MailChimp*).

Responsibilities

UX Designer, Database Designer, Software 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 admin panel.

Responsibilities

Software Developer.

Technologies

RESTful, SPA, MySQL, nodejs, expressjs.

Link

<http://goo.gl/ST1UMC>

Mobile Apps framework

January 2012 to October 2012

Description

Framework to develop mobile Apps exploiting .net and web technologies.

Responsibilities

Software Developer

Technologies

C# .net framework 3.5

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* volumes.

Responsibilities

Software Developer.

Technologies

Java, MySQL.

Navionics Rating and review system

April 2011 to July 2011

Description

Rating and review system for the Navionics Navigation app.

Responsibilities

Software 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

Software Developer.

Technologies

Objective-C, C/C++.

Link

<http://goo.gl/d7Qel2>

Ledout

November 2012

Description

E-Commerce portal.

Responsibilities

Software Developer.

Technologies

PHP 5, Symfony.
