



Pablo Panero


Software Engineer

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Technical Skills

Programming: [Python](#), JavaScript, Go

(Web) Technologies: [Flask](#), Celery, SQLAlchemy, Pytest, React, Redux, Webpack, Semantic-UI, Jinja

Databases: [Elasticsearch](#), [PostgreSQL](#), Redis

(Big) Data Science: Spark, Kafka, Flume, YARN, Tensorflow, Keras

Other: [Docker](#), [OpenShift](#), Helm, OpenStack, Puppet, Fabric, GitHub actions, Kibana, Grafana

Personal skills: [Team player](#), [Problem solving](#), [Initiative](#), Organization, Curiosity driven

Languages


Spanish: Native language

English: Full working proficiency


French: Full working proficiency

Education

MSc. Data Science

 Universidad Oberta de Catalunya


 2018 - 2021

 Catalonia, Spain


Erasmus+ Exchange


 Oulun Yliopisto


 2014 - 2015

 Oulu, Finland

BSc. Computer Science Engineering

 Universidad Complutense de Madrid

 2011 - 2016

 Madrid, Spain

Graduated with extra credits

Experience

Software Engineer | [CERN](#) - [Zenodo](#), [InvenioRDM](#)

Jun 2019 - Present

 *Python, Celery, Elasticsearch, Docker, OpenShift, Helm, RabbitMQ*

Core developer of [Zenodo](#) and [InvenioRDM](#):

- **Maintain the [Invenio Framework \(GitHub\)](#), with more than 130 modules.**
- **Design a migration strategy for over 3M documents and 10M files (1.7PB).**
- Redesign and implement core packages to **build RESTful APIs, data models**, manage persistent identifiers and support event handling.
- Develop Helm charts to automate the deployment on OpenShift.
- **Operations and incident response on Zenodo, a service with 25M visits/year and 350k active users.**
- Research the usage of [neural networks on SPAM detection](#).
- **Scrum master** of sprints of 6 software engineers.
- Gather requirement from stakeholders, as well as user feedback sessions.
- Assist in the organization of workshops of more than 35 people (21 partner institutions).
- Participate on outreach events and present webinars.
- Lead the *buddy system*, for newcomers onboarding.
- **Lead a collaboration working group** to identify and tackle problems regarding remote working practices. Define guidelines and success metrics. The results had an impact on more than 15 people.

Software Engineer | [CERN](#) - [CERN Search](#)

Feb 2018 - Jun 2019

 *Python, React, Elasticsearch, Docker, OpenShift, RabbitMQ*

Lead developer of the new generation [CERN Search as a Service](#):

- From design to **production in less two years time** (*one man project*).
- Maintain a production instance that indexes and searches **over 24M documents**. Including the optimization of Elasticsearch mappings and search scoring functions.
- Provide support to clients (e.g. [Indico](#)) on their integration with the service.
- Develop and maintain the crawler used to harvest the whole CERN websphere.

Big Data Engineer | [CERN](#) - [Computer Security](#)

Feb 2017 - Feb 2018

 *Python, Scala, PHP, Spark, Kafka, Flume, YARN, Mesos, Puppet, Docker*

Core developer of the Compute Security Team's infrastructure:

- Develop a **large scale intrusion detection system** capable of processing 500GB of data per day (50k events/s).
- Contribute new features to the Malware Information Sharing Platform ([MISP](#)). **Deploy and maintain two production instances** (CERN and WLCG).
- Develop and maintain the MISP puppet module on [Vox Pupuli](#).

Big Data Instructor | [Culture Lab](#) and [NewProLab](#)

Nov 2016 - Nov 2017

 *Hadoop, Spark, Kafka, Flume, Hive, Pig, Impala, Sqoop, Cloudera, Hortonworks, YARN*

- Design and teach both in-person and online Big Data related courses.