

ALEJANDRO SUÁREZ

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SUMMARY

Software engineer with a Master's degree in Web Engineering and 3 years of experience working as a Full Stack Engineer and System Administrator, with fluent speaking in Spanish and English, seeking to learn and participate in the development of new technologies that present a challenge and allow me to grow professionally.

Self-taught • Inquisitive • Innovative • Results oriented

EDUCATION

UNIVERSITY OF OVIEDO

Oviedo, Spain

Master's degree in Web Engineering

Sep '17 – Jun '20

- Certified European Master (Euro-Inf)
- JavaScript, CSS and HTML5 API • Web services • Web frameworks • Web security and penetration testing • Data mining and semantic web • Machine learning • Non-relational databases • Oracle • Design patterns • Web servers (Apache and Nginx) • Project Management (ITIL) • System administration • Android and Kotlin

CORK INSTITUTE OF TECHNOLOGY

Cork, Ireland

Software Engineering

Jan '19 – Jun '19

- Erasmus scholarship
- Progressive web applications • Big Data (Spark and Hadoop) • Drupal • Python • Graphic Design

UNIVERSITY OF SANTIAGO DE COMPOSTELA

Santiago de Compostela, Spain

University degree in Computer Science

Sep '12 – Jun '17

- Databases • Operating systems • C • Java • SQL • Linux and Shell scripting • Project Management (PMBOK)

PROFESSIONAL EXPERIENCE

CERN – Beams department – Particle accelerator in Switzerland

Geneva, Switzerland

System administrator / Software engineer

Nov '20 – Jan '22 (1 year 2 months)

- Administration of Linux systems that control hardware for the accelerator, as well as design and development of a backend and software that automates sys. admin tasks • Python, Ansible, Bash, GitlabCI/CD, Openstack

ENXINE – IoT specialized company

O Milladoiro, Spain

Backend developer

Oct '19 – Nov '20 (1 year)

- Maintenance and development of new functionalities inside the Backend System which controls and monitors electrical car chargers • NodeJS, Redis, PostgreSQL.

OVERON – Telecommunications company

Madrid, Spain

Internship – Remote Work

May '18 – Oct '18 (6 months)

- Development of a transcoder that transforms an audio/video/subtitle signal of any origin and format to a playable format by any web browser • GoLang, FFmpeg, JavaScript

CONNECTORS – International mobility company

Vigo, Spain

Degree final project

Jan '17 – May '17 (5 months)

- Development of a multiplatform social network which promotes contact between mobility participants as well as improves the communication between the company and their clients • Java, Spring, React, PostgreSQL

JONARO – Amazon provider

Cambridge, United Kingdom

Apprentice

Jun '16 – Aug '16 (2 months)

- Development of a software which automatizes processes like keeping product stock control, saving orders registry or generating and printing shipping tags • Java, Java Swing, PostgreSQL.

ADDITIONAL INFORMATION

Languages	Spanish • English
Programming languages	C • Java • JavaScript/TypeScript • SQL • Python • Rust • HTML • CSS
Databases	PostgreSQL • MySQL • Redis
Frameworks	Spring Boot • NodeJS • React • React Native • Vue • Nuxt
Other technologies	Linux • Git • Ansible • Machine Learning • Bash • Docker • FFmpeg
Hobbies	Thinking • Music • Getting away from the routine • Solving problems
Additional experience	Teaching programming • Electronic devices repairing • Personal projects

PROJECTS

Accadmlib

CERN

Design and development of a library that includes a range of CERN API integrations and tooling that allows quick development of scripts without the headache of dealing with all CERN services and integration methods.

The module could be used through a command line with an automatically-generated set of commands, a python script by importing it as a python module, or a REST service by deploying its integrated web server. Those 3 methods allow several authentication methods: JWT, Kerberos, CERN RBAC, or Netrc.

The framework included monitoring mechanisms such as exposing an HTTP endpoint with information that is ingested and composed by Prometheus to finally be sent to Grafana or a Mattermost bot that automatically sends a message to a group in case an error occurs. • Python, Grafana, Prometheus, Kerberos, REST, SOAP

Along with the technical part, involvement with different departments was required for its creation.

Accadmlibclient

Design and development of the CLI applications that consumes the REST services provided by accadmlib. Includes tooling for creating virtual machines, inserting and configuring new hardware in different services, automatically adding nodes into clusters... • Python

ROG (Remote operations gateway)

CERN

<https://rog.cern.ch/>

Installation, configuration, and maintenance of the FastX cluster of Linux remote desktop as well as the creation of the corresponding Ansible roles necessary for its automatic deployment.

Fastx: https://gitlab.cern.ch/acc/infra/ansible/cs8_common/-/tree/master/fastx

Kernel modules for sec team: https://gitlab.cern.ch/acc/infra/ansible/cs8_common/-/tree/master/sectools_it

VPC (Virtual private computers)

CERN

Maintenance and automation tasks of the virtual machines created in the OpenStack cloud.

Infrastructure automation

CERN

Creation and design of the structure and CI/CD automation mechanism of the following repository <https://gitlab.cern.ch/acc/infra/ansible> which is responsible for configuring and installing the required software on CentOS Stream 8 machines.

Personal webpage

Personal project

<https://alejandrosuarez.eu>

Mar '22

Personal web page and a small blog that pretends to be a compilation of the knowledge that I am acquiring as a software engineer. • Nuxt

Videochat

Personal project

<https://alejandrosuarez.eu/videochat>

Jun '22

A small multiplatform video chat application that allows keeping a peer-to-peer secure conversation with anyone by sharing only one link, without the need of installing any application or creating an account.

The video chat includes hand recognition which makes you able to draw in the screen remotely to another person by enabling the option and by putting your fingertip and thumb together. • Vue, WebRTC, TensorFlow

rust-websocket-relay

Personal project

<https://github.com/AlexSua/rust-websocket-relay>

Aug '22

A lightweight and resource-friendly relay server to easily communicate two applications using WebSockets

• Rust, Actix

python-cli-generator

Personal project

<https://github.com/AlexSua/python-cli-generator>

Sep '22

Python library that automatically generates a CLI given a class, a function, a list, or a dictionary • Python

price-comparator/web-crawler

Personal project

WebCrawler with multi-threading and proxy rotation. It extracts information on prices from different web pages.

• Java, PostgreSQL

quiero-quedar

Personal project

An app that aims to automatically create and generate groups of people with common interests to improve social

Jan '20

interaction • React Native, Node LoopBack and PostgreSQL