


Silvano Cerza — Software Engineer

 silvanocerza.com

 [/users/4156301](https://github.com/users/4156301)

 [@silvanocerza@gmail.com](mailto:silvanocerza@gmail.com)

 [/silvanocerza](https://github.com/silvanocerza)

 [/in/silvanocerza](https://in.linkedin.com/in/silvanocerza)

I enjoy working on different platforms and technologies, right now most of my time is spent multi platform desktop applications in Golang, I also dabble with Electron/Node. In the past I used to write desktop and mobile applications with Qt, a C++ framework. I also had the chance to work on some small web applications in Django/Python. Mostly for personal projects I've also used the frontend stack throughout the years. I'm never scared to tackle a new task using unknown languages or technology, it's something that I aim for since I believe it's the best way to learn something new.

Work Experience

Arduino

Jul 2020 – Present

 arduino.cc

I work mainly on the ArduinoCLI, implementing new features, fixing bugs and writing tests. I also work on other minor supporting projects for the ArduinoCLI like external libraries, GitHub Workflows Actions and similar things. Most of the times I handle the release process of the ArduinoCLI, from triggering the build process to communicating with marketing for social communications.

Golang

Python

TypeScript

Molecular Horizon

Jun 2019 – Jul 2020

 molhorizon.it

I work on several cheminformatics projects, I focus mainly on GUI development in C++ using the Qt framework, but also had the chance to contribute with the scientific team to the core components of the products.

C++

Qt

QML

Qt Quick

Evonove

Feb 2015 – May 2019

 evonove.it

I work mainly on web applications in Python based on the Django framework. I gradually moved to C++ developing multi platform apps using the Qt framework. On occasion I also train newcomers and interns on Git, Python and C++. I've also had the chance of managing small projects.

Python

Django

C++

Qt

QML

Qt Quick

Work Projects

Arduino CLI

 [/arduino/arduino-cli](https://github.com/arduino/arduino-cli)

Arduino CLI is a command line tool written in Go, it's used to manage and install libraries, the tools necessary to compile and upload to different Arduino boards, and several other things. Among its features it's also the backbone of the new Arduino IDE, using a gRPC interface to communicate with each other. I plan and implement new features, fix existing bugs, enhance legacy parts and write tests for untested parts of the code.

Golang

Python

gRPC

Protobuf

Arduino IDE 2

 [/arduino/arduino-ide](https://github.com/arduino/arduino-ide)

Arduino IDE 2 is the new version of the famous Arduino IDE used by millions of makers around the world. The new version has been rewritten from scratch using Electron and the Theia framework. It uses the Arduino CLI internally to implement most of its features. I implemented some minor feature, fix existing bugs, and handled integration of new functionalities from the Arduino CLI.

Node

Electron

Theia

Typescript

React

Kibitzer

 moldiscovery.com/software/moka/

Kibitzer is a desktop app to train computational models used to predict molecules' pKa values. I integrated several C and C++ libraries in a multi threaded model to parallelize their execution to speed up the statistical computation for a better user experience.

[C](#) [C++](#) [Qt](#) [QML](#) [Qt Quick](#)

MKM SDK

 [/evonove/mkm-sdk/](https://evonove/mkm-sdk/)

An open source SDK for Magic Card Market, uses reflection to dinamically resolve the API endpoints.

[Python](#) [OAuth](#)

Qnite

 [/evonove/qnite/](https://evonove/qnite/)

An open source library to create charts declaratively in QML.

I contributed by adding several features like charts zoom and bug fixing.

[C++](#) [Qt](#) [QML](#) [Qt Quick](#)

Swing

 [/moldiscovery/swing/](https://moldiscovery/swing/)

A CLI tool to handle upload and download of versioned files to AWS S3 buckets.

[Golang](#) [AWS](#)

Talks

Monitoring Open Source Success in Arduino

Oct 2021

 [/watch](#)

In this talk, I tell the story of how my team started using Datadog in an unusual way to monitor the success of one of the most important of its Open Source projects, the Arduino CLI, by gathering download information from different sources and monitoring build failures. I also explore some of the next steps we can take to gain insight into our other projects.

Personal Projects


Yellow Rats

 [/silvanocerza/yellow-rats/](https://silvanocerza/yellow-rats/)

A simple GUI written in C++ using OpenCV and ZBar, to scan and catalog comics by number and quality.

[C++](#) [OpenCV](#) [ZBar](#) [CMake](#)

Cute Code Accessor

 [/silvanocerza/CuteCodeAccess](https://silvanocerza/CuteCodeAccess)

Cute Code Accessor is a plugin for Unreal Engine that enables the use of Qt Creator as its IDE.

[C++](#) [Unreal Engine](#)

Bank Reader

 [/silvanocerza/bank-reader](https://silvanocerza/bank-reader)

A scraper for my personal bank account, used to monitor how I spend my money.

[Python](#) [Django](#) [Scrapy](#) [Lua](#) [Vue.js](#)

Datadog Agent

 [/DataDog/datadog-agent](https://DataDog/datadog-agent)

Datadog Agent is an open source monitoring tool. I contributed to Six, a C++ wrapper around the CPython API supporting multiple versions of Python that can be used by other languages like Go.

[C++](#) [C](#) [CPython](#) [Go](#)


Spectrum

 [/silvanocerza/spectrum](https://silvanocerza/spectrum)

An highly customizable Hugo theme based on the CSS framework Bulma.

[Sass](#) [CSS](#) [Bulma](#) [Hugo](#)

This resume

 [/silvanocerza/resume](https://silvanocerza/resume)

This resume has been completely written in HTML and Scss. Uses a small Dart script and dart-sass to compile and minimize Scss sources.

[HTML](#) [Dart](#) [Sass](#) [CSS](#)