# Silvano Cerza — Software Engineer

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I enjoy working on different platforms and technologies, but most of my time is spent writing desktop or mobile applications with Qt, a C++ framework. I also worked on some web applications in Django and Golang and use Python whenever C++ is not the best fit for the job. Mostly for personal projects I've also worked with the frontend stack throughout the years. I'm never scared to tackle a new task using unknown languages or technology, in fact it's something that I aim for since I believe it's the best way to learn something new.

# **Work Experience**

## **Evonove**

Feb 2015 - May 2019

**Molecular Horizon** Jun 2019 - Present

# evonove.it

I work mainly on web applications in Python based on the Django framework.
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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

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

# **Work Projects**

#### **Kibitzer**

<u>moldiscovery.com/software/moka/</u>

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

### **Onite**

O\_/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**

\(\sigma\) /moldiscovery/swing/

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

Golang AWS

#### Kinetica

Desktop application written for sport trainers that receives data from sensors attached to athlete's body to show realtime informations of current exercise and movements mapped to 3D model.

I built the UI and integrated the OGRE game engine into QML to show the 3D human model.

C++ Qt QML Qt Quick OGRE 3D

#### **MKM SDK**

O\_/evonove/mkm-sdk/

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

Python OAuth

# **Personal Projects**

#### **Cute Code Accessor**

\( \silvanocerza/CuteCodeAccess \)

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



#### **Bank Reader**

/silvanocerza/bank-reader

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



# **Datadog Agent**

O\_/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.



### **Spectrum**

♠ /silvanocerza/spectrum

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

Sass CSS Bulma Hugo

#### This resume

(7) /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

#### **Exercism**

O\_/Exercism/

Exercism is a learning platform for beginner software developers.

I'm helping migrate the C++ track to the new version of the site by writing new exercises and building tools to ease the self learning journey of the students.

(C++