SUMMARY

Scientist and Research Software Engineer with more than 8 years experience crafting scientific software in C++ and Python. Experienced developing High Performance Computing software. I have successfully led small software projects. Curious by nature, I like to discover and learn new electronics and computer science related technologies.

VÍCTOR A. Gil
Chief Technology Officer

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EDUCATION

2010-2016
Ph.D. Biomedicine
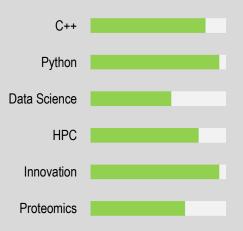Universitat de Barcelona, Spain

2007-2009
M.Sc. Biomedical Engineerin
Universitat Politècnica de Catalunya, Spain

2001-2006
B.Sc. Computer Engineering
Universitat Politècnica de Catalunya, Spain

EXPERTISE

C++	
Python	
Data Science	
HPC	
Innovation	
Proteomics	

INTERESTS

Technology • Programming • Biomedicine

EXPERIENCE

CO-FOUNDER & CTO - ZYMVOL
2017-
Implementing and supervising the software infrastructure. Contacting and managing new software providers. Selecting and leading programmers. Maintaining and open research lines related with computational tools.

RESEARCH SOFTWARE ENGINEER - BARCELONA SUPERCOMPUTING CENTER
2010-2016
Redesigned and translated the in-house software (PELE) from a legacy FORTRAN version to C++. This was part of the European Research Council project "PELE – a la carte drug design" (total budget 1.4M€). Improved the performance of the new implementation using modern HPC techniques (multi/manycore and distributed systems). Implemented and improving novel biophysical simulation algorithms. Implemented safer and efficient parallel machine learning methods in Python.

RESEARCH SOFTWARE ENGINEER – CENTER FOR GENOMIC REGULATION
2009-2010
Coded new modules for the Python package Biskit to handle fused domains, coiled coils, and calculating FRET- related metrics.

JUNIOR RESEARCH SOFTWARE ENGINEER - BARCELONA SUPERCOMPUTING CENTER
2006-2007
General research and implementation of sampling algorithms using normal modes, molecular dynamics and machine learning based approaches

SCIENTIST | PROGRAMMER | ENTREPRENEUR