

Maikel Dal Farra

SOFTWARE ENGINEER DEVELOPER

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"The latest achievement is merely a cornerstone for something even better."

Summary

- Nationality: Italian, eligibility to work in EU.
- Experienced professional with passion for software development.
- Experience in software development for Linux and Windows platforms.
- Designing and developing in C++ as the main language and Python skills.
- Embedded systems based on Linux.
- Version control system and repositories management services. Skills: Git, Github, Gitlab, Bitbucket.
- Experience with task tracking platforms: JIRA, Redmine, Team Forge.
- Experience developing UI applications using Qt.
- JavaScript front-end experience using jQuery library.
- Improving/refactoring legacy code implementing continuous integration, unit and acceptance tests. Skills: BDD, TDD, CI, MVC, Jenkins, GoogleTest, Catch, Behave, Gherkin/Selenium.
- Experience with graphics libraries OpenGL and OpenCV.
- Automating the process of compilation with build systems. Skills: CMake, Scons.
- Knowledge of libraries that provide support for tasks and structures. Skills: Boost, STL, Python modules.
- Experience with C++/Python package manager Conan and Poetry.
- Knowledge in persistent storages and SQL databases. Skills: Postgres, MySQL, SQLite, Redis, MongoDB.
- Knowledge of data interchange formats and transfer architecture. Skills: JSON, XML, JSON-RPC, Rest.
- Experience with Docker automating the deployment of applications.
- Knowledge in TDM and VoIP protocols.
- Working experience with VoIP systems. Skills: SIP, Asterisk PBX.
- Experience using Scrum/Agile tools.
- Writing product documentation, manuals, and guides for testers and customers.

Education and Qualification

NUI Galway

MSC COMPUTER SCIENCE - ARTIFICIAL INTELLIGENCE (NFQ 9)

Galway, Ireland

Starting from Sep. 2020

Univali University

POSTGRADUATE: SPECIALIZATION IN SOFTWARE QUALITY AND ENGINEERING (NFQ 9)

São José, Brazil

Mar. 2013

Univali University

B.S. IN COMPUTER SCIENCE

São José, Brazil

Ago. 2006

Training

Coursera

REMOTE

Jul. 2020

- Machine Learning. - <https://www.coursera.org/certificate>

Khomp Co., Ltd.

IN COMPANY

Florianópolis, Brazil

Sep. 2017

- Asterisk.

Audaces Co., Ltd.

IN COMPANY

Florianópolis, Brazil

Feb. 2008

- Better Developer.
- C++ Language.
- C++ TDD Object Mentor.

Languages

- Portuguese
- English

Work Experience

Valeo Vision Systems. - Automotive supplier and partner to automakers worldwide

Co Galway, Ireland

TEST TOOLS SOFTWARE DEVELOPER

Nov. 2018 - PRESENT

- Development in C++ for automotive systems based on Windows.
- Developing test procedures and validation plans for Advanced Driver Assistance Systems (ADAS) features and Autonomous Vehicles.
- Working with testing simulation, hardware-in-the-loop, software-in-the-loop techniques.
- Experience with sensing systems such as cameras, radar, lidar, GPS, IMUs.
- Developing software components integrating new applications to automotive bus and hardware architectures using Automotive Data and Time Triggered Framework (ADTF).
- Working with Team Forge software management platform integrated with GIT.
- Experience with graphics library OpenCV.
- Experience developing UI applications using Qt.
- Adapting legacy code to continuous integration with Jenkins.
- Experience with SOAP, REST, RPC services and Protocol buffers, JSON/XML parsing tools.

Khomp Co., Ltd. - Solutions of convergence between computers and telephony

Florianópolis, Brazil

SOFTWARE ENGINEER DEVELOPER

Feb. 2017 - Aug. 2018

- Head of zero-touch provisioning platform project at stage one.
It allows installing the hardware directly into the environment without manual intervention.
- Development in C++ for telecommunication systems based on embedded Linux.
- Front-end development using jQuery.
- Python development for automated tests with Gherkin/Selenium.
- Python development for server-side applications.
- Working with GIT integrated with Gitlab.
- Experience in Redmine as task tracking software.
- Automating compilation processes with Scons.
- Working with Conan C/C++ package manager.
- Work methodology based on Scrum.
- Experience building web API JSON-RPC.
- Working with VOIP systems, Asterisk PBX, TDM, and VoIP protocols.
- Writing feature documentation for user manual and testers.
- Customer training and presentation about the company products.
- Implementing features to User Media Gateway, that aims convergence VoIP-TDM telephony.

Hexagon Agriculture Co., Ltd. - Management system for precision agriculture

Florianópolis, Brazil

SOFTWARE ENGINEER DEVELOPER

Sep. 2015 - Feb. 2017

- Development in C++ for precision agriculture system based on embedded Linux.
- Software-Hardware integration.
- Working with GIT integrated with Bitbucket.
- Experience developing UI applications using Qt.
- Using of JIRA as task tracking software.
- Python development to data interchange and software-hardware interoperability.
- Implementation of Linux Inter-Process Communications with D-Bus.
- Head of board testing project. Aiming the improvement of board test process.
- Experience with graphics library OpenGL.
- Working with Scrum tools.
- Automating compilation processes with Cmake.
- Writing feature documentation for the user manual.

Reivax Co., Ltd. - Systems and solutions for the control of energy generation

Florianópolis, Brazil

RESEARCHER AND SOFTWARE DEVELOPER

Jul. 2015 - Aug. 2015

- Research and development for a Brazilian government project.
- Development in C++ for systems and solutions for power generation management.
- Working with Delphi language to improve a legacy system.
- Bug fixes and development of graphical user interfaces.
- Development of embedded system software.

Audaces Co., Ltd. - Fashion technological innovation

Florianópolis, Brazil

C++ DEVELOPER III

Aug. 2012 - Jul. 2015

- Bug fixes and improvements graphical user interfaces.
- Refactoring a monolithic legacy system.
- Adapting legacy code to continuous integration with Jenkins.
- Adapting legacy code to CMake build systems.
- Working with GIT.
- Writing automated tests.
- Experience with graphics library OpenCV.
- Knowledge of Agile methodology.

C++ DEVELOPER II

Jan. 2008 - Aug. 2012

- Improving code from C++ to C++11.
- Refactoring legacy code into MVC design.
- Bug fixing and improvement of code.
- Experience developing UI applications using Qt.
- Using of Boost library.
- Working with SVN and writing automated tests.

C++ DEVELOPER I

Oct. 2006 - Jan. 2008

- Head of image processing project – Digiflash (scanning a pattern from a digital picture).
- Researching in image processing, pattern recognition (neural networks, cross-correlation).
- Bug fixes in CAD/CAM system.