Maikel **Dal Farra**
Software Engineer Developer

☐ (+353) 83100-3542 | ✉ maikeldf@gmail.com | ⌨ maikeldf | 🔗 maikeldf | Ⓢ maikeldf

"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   *Galway, Ireland*
MSc Computer Science - Artificial Intelligence (NFQ 9)   *Starting in Sep. 2020*

Univali University   *São José, Brazil*
Postgraduate: Specialization in Software Quality and Engineering (NFQ 9)   *Mar. 2013*

Univali University   *São José, Brazil*
B.S. in Computer Science   *Ago. 2006*

Training

Coursera
Remote   *Jul. 2020*
- Machine Learninig. - https://www.coursera.org/certificate

Khomp Co., Ltd.   *Florianópolis, Brazil*
In Company   *Sep. 2017*
- Asterisk.

Audaces Co., Ltd.   *Florianópolis, Brazil*
In Company   *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.