Maikel **Dal Farra**

SOFTWARE ENGINEER DEVELOPER

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

Summary

- 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 like JIRA and Redmine.
- User interface development toolkit Qt.
- JavaScript front-end experience using jQuery library.
- Improving/refactoring legacy code implementing continuous integration, unit and acceptance tests.
  Skills: Unit Tests, Acceptance Tests, 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.
- Libraries that provide support for tasks and structures. Skills: Boost, STL, Python modules.
- Experience with Conan C/C++ package manager to create, test and release code.
- 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.
- Customer training and presentation skills.
- Experience using Scrum/Agile tools.
- Writing product documentation, manuals, and guides for testers and customers.

Work Experience

Khomp Co., Ltd.   *Florianópolis, Brazil*
SOFTWARE DEVELOPER   *Feb. 2017 - PRESENT*
- Head of zero-touch provisioning platform project at part one.
  It allows install 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.

Florianópolis, Brazil

SOFTWARE 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.
- User interface development toolkit 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 user manual.

Reivax Co., Ltd.

Florianópolis, Brazil

RESEARCHER

Jul. 2015 - Aug. 2015

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

Audaces Co., Ltd.

Florianópolis, Brazil

SOFTWARE DEVELOPER

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 build system with CMake.
- Working with GIT.
- Writing automated tests.
- Experience with graphics library OpenCV.
- Knowledge of Agile methodology.

Honors & Awards

INTERNATIONAL

2017	**Finalist**, DEFCON 25th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2014	**Finalist**, DEFCON 22nd CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2013	**Finalist**, DEFCON 21st CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2011	**Finalist**, DEFCON 19th CTF Hacking Competition World Final	*Las Vegas, U.S.A*

DOMESTIC

2015	**3rd Place**, WITHCON Hacking Competition Final	*Seoul, S.Korea*
2017	**Silver Prize**, KISA HDCON Hacking Competition Final	*Seoul, S.Korea*
2013	**Silver Prize**, KISA HDCON Hacking Competition Final	*Seoul, S.Korea*

Presentation

DevFest Seoul by Google Developer Group Korea

Seoul, S.Korea

PRESENTER FOR <HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE>

Nov. 2017

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

Jul. 2012

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

Writing

A Guide for Developers in Start-up

Facebook Page

FOUNDER & WRITER

Jan. 2015 - PRESENT

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

Program Committees

2016	**Problem Writer**, 2016 CODEGATE Hacking Competition World Final	*S.Korea*
2013	**Organizer & Co-director**, 1st POSTECH Hackathon	*S.Korea*

Education

POSTECH(Pohang University of Science and Technology)   *Pohang, S.Korea*

B.S. in Computer Science and Engineering   *Mar. 2010 - Aug. 2017*

- Got a Chun Shin-Il Scholarship which is given to promising students in CSE Dept.

Extracurricular Activity

PoApper (Developers' Network of POSTECH)   *Pohang, S.Korea*

Core Member & President at 2013   *Jun. 2010 - Jun. 2017*

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)   *Pohang, S.Korea*

Member   *Sep. 2010 - Oct. 2011*

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.