Pedro Arnedo

Senior Software Engineer

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Qualification Summary

Experience encompassing various technologies including **C/C++(QT, stl, boost)**, **Python (Django, tornado)** , Java, REST, SOAP, ELK, AWS, vim, **backend development**, realtime large-scale web services, SQL, **Oracle**, Agile.

- Over 8 years of hands-on experience in software development and IT
- Demonstrated abilities to build for scale and maintain top rated high volume products
- Startup oriented, quick learner, able to "own" the product, assume responsibilities, adapt to changes and/or pivot when needed
- Able to coordinate efforts and guide teams in cross-cultural environments

Trainings and certifications

2017	**Management Development for New managers/Supervisors**, *Amadeus*, Boston.
2015	**MongoDB certification**, *Amadeus*, Nice.
2014	**Scrum master certification**, *Amadeus*, Nice.
2013	**Oracle optimization**, *Amadeus*, Nice.

Professional Experience

2014-Present · **Amadeus North America employee in Hotel department**, *Senior Software Developer*, C++, Oracle, Python, Javascript.

- During the last three years, I've played a major role in the development of the rates management system for InterContinental. I've worked together with 20 other developers, 5 business analysts and 4 QAs in a scrum environment to deliver a solution that allows IHG to decommission a 50 years old system.
- **Recruitment:** Performed technical interviews with senior and junior candidates. Perform mentoring to Junior newcomers so they can become productive members of the team in a reduced amount of time *recruitment, mentorship, pair programming*
- **Design:** As initial member of the team I've been in a privileged position to design the Rate Management System for IHG. I designed the system following an N-Tier architecture, separating the data access layer from the business layer.*(N-tier, SOA)*
- **Testing:** I've set up policies to enforce the TDD for at least the data access layer part and enforce other policies like "no dynamic queries" generation. The framework used is google test and google mock. *TDD, gmock, gtest*
- **Development:** I've set up the initial C++ code architecture that allowed us to deliver new services (currently we have 90) in a fast and coherent way. *C++, protobuf*
- **Monitoring:** I've set up a system using ELK to monitor the performances of the rate management services. It tracks thanks to a homemade c++ library to track where the service is spending most of the time. *Bash, ELK, Python*
- **Troubleshooting:** Setup od a Django application that abstracts the database by showing all the data for a given object no matter what are the tables in which it's stored. *Oracle, Django, JQuery, Bootstrap, d3js*
- **Management:** As a senior member of the team I've participated in exercises that required complex sizing and OOM in collaboration with the senior management of the division.
- **Agile:** I've been scrum master for one year and a half in the team here in the US plus another year abroad in France.

2012-2016 · **Creator of Scan& android application**, *New communication technology based on qr codes.*

2010-2014 **Amadeus S.A.S employee in Hotel department**, *Software Developer.*
- During the first four years of my career, I've been working on a myriad of projects, all of them under the scope of the hotel department.
- **Performance:** I've performed oracle performances studies for the reservation search services. I've performed a database study on indexes, data storage, and queries definition, leading to an increase of performance of several orders of magnitude.*(Oracle, execution plan, clob, index-organized-table)*
- **Development:** I've consolidated all search and retrieve reservation services in AHP platform in a single service. Managing up to 23 versions of the same service in an organized, efficient and no-error-prone way. *(TDD, Decorator pattern)*
- **Code refactoring:** In 2013 I extracted the search and retrieve reservation backend from a monolithic reservation component. An architecture that allows modularity, readability, extensibility was put in place as well as a design that facilitates the maintenance.
- **Middleware:** Evoucher is a core middleware used by 5 different teams across the hotel department, a release notes system and documentation was put in place to improve communication.
- **Code audit:** in 2013 I performed an audit in a core middleware component of the hotel department. This audit was considered by the management as accomplished exceeding targets.
- **Working under pressure:** In 2012 I implemented a profile linking functionality on the profile management backend. Despite having to depend on other departments the project was delivered on time.
- **Bug fixing:** On 2011 I helped in the integration of Travelport, I focused on bug fixing helping to keep the project on track. As consequence, the bug backlog was drastically reduced.
2010 **Computer security internship at Beihang University**, *Specialization in computer security*, Sensor Networks, distributed security.
2009 **6-month internship "Refonte de l'IHM d'EGIPTE"**, *Atos Origin*, Meylan.
Used technologies: C++, QT, boost, metaprogramming

Education

2009–2010 **Master II "Security, Cryptology and Coding of Information Systems"**, *ENSIMAG*, Grenoble.
2008–2010 **Double degree, speciality "Ingénierie des Systèmes d'Information"**, *ENSIMAG*, Grenoble.
2001–2008 **Computer Engineering**, *Universidad Politécnica de Madrid*, Madrid.

Languages

Spanish Mother tongue
French Bilingual
English Fluent

Some projects completed during my studies at UPM

2007-2008 **C compiler written in python language**.
2008 , *Usability design and test of a class distributor for the Facultad de Informática - UPM.*
i 2003 , *Sokoban game design and programming in ada95.*

Community Live

2007–2008 **President of the ACM student chapter association**, Facultad de Informática, U.P.M, Madrid.
2006–2007 **Vice-President of the ACM student chapter association**, Facultad de Informática, U.P.M, Madrid.

Other interesting information

- **Amateur snowboard and amateur scuba diving**, *Easy-going, responsible and reliable.*