

Pedro Arnedo

Senior Software Engineer

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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.

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

- 2018–Present **Localytics employee in CS department**, Senior Solution Architect, Python, AWS, serverless, Flask, Vue.js.
- 2015–2018 **Amadeus North America employee in Hotel department**, Senior Software Developer, C++, Oracle, Python, Javascript.
- 2014–2015 **Amadeus North America employee in Hotel department**, Software Developer.
- 2010–2014 **Amadeus S.A.S employee in Hotel department**, Software Developer.
- 2012–2016 **Creator of Scan& android application**, New communication technology based on qr codes.
- 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

Languages

- Spanish Mother tongue
- French Bilingual
- English Fluent

Skills Base

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|---------------|--|-----------|-----------------------------|
| Languages | C/C++(QT, stl, boost), Python, Haskell, ADA95, Java, Visual basic .NET | Databases | Snowflake, Oracle, MySQL |
| DevOps | AWS, Terraform, Docker, Kubernetes, serverless | | |
| Scripting | Python, shellScript | Utilities | vim, valgrind, gtest, gmock |
| Methodologies | Scrum, kanban, cascade | | |

Projects at Localytics

- 2019 **Drop to API**, *System where clients drop a file, we parse, transform it and call rest APIs*, Python, AWS lambda, AWS ECS fargate, Terraform, Snowflake.
- 2019 **Jira to Salesforce sync**, *Internal tooling that allows us to sync time entries, projects, org data, Jira Issues from and to salesforce*, Jira, Salesforce, Python.
- 2018 **Throttling system**, *Implementation of a throttling system when calling an API to avoid impacting clients infrastructure*, Python, AWS, Elastics Beanstalk, Terraform.
- 2018 **Basket Rules**, *Implementation of a-priory algorithm with UI and backend to generate recommendation rules for Media and Retail customers*, Snowflake, Python, AWS API Gateway, AWS lambda, AWS Elastics Beanstalk, Terraform.
- 2018 **Reporting framework**, *Reporting generation engine that allows us to generate custom reports from several sources of data and to several destinations*, Python, Kubernetes Cronjobs, Docker.

Projects at Amadeus

- 2014-2018 **Rate Management System for IHG**, *Implementation of the new functionalities needed by intercontinental related to the management of rates*, Currently under development, C++, Oracle, protobuf.
- 2016 **Setup of a database viewer for the rates management data**, *The data viewer abstracts the database by showing all the data for a given object no matter what are the tables in which it's stored.*, Python, JQuery, Bootstrap, d3js.
- 2015 **Monitoring Rate Management performances**, *Setup of a system using ELK to monitor the performances of the rate management services.*
- 2014-2018 **Mentoring activities**, *Mentoring of the newcomers so they can become productive members of the team in a reduced amount of time, at a rate up to 2 by month.*
- 2014-2018 **Recruitment activities**, *Helping in the recruitment process by performing technical C++ interviews to senior and junior candidates.*
- 2014 **Rate Management (RTM) extraction from shopping and pricing component (HRP)**, *Takeover and refactoring of the component; Implementation of new functionalities for IHG GRS future system.*
- 2014 **Unified Search**, *Performance study and monitoring.*
- 2013 **Unified Search**, *Consolidation of all search and retrieve reservation services in AHP platform in a single service.*
- 2013 **Evoucher new search prototype**, *Prototype based on a revisited architecture demonstrating major improvements in response time and scalability potential in terms of volume of data and throughput.*
- 2013 **Evoucher**, *Release notes and communication*, EVR is a core middleware used by 5 different teams across AHP, a release notes system has been put in place to improve communication.
- 2013 **Evoucher Audit**, *Audit performed in a core middleware component of AHP CRS*, Objective accomplished exceeding targets.
- 2013 **Search and retrieve reservations backend**, *Implementation of versioning, providing 30 different combinations of services.*
- 2012 **Search and retrieve reservation backend (SLR) extraction from hosted reservation component (HRS)**, *Takeover and refactoring of the component; An architecture that allows modularity, readability, extensibility has been put in place as well as a design that facilitates the maintenance.*

- 2012 **User profile backend**, *Implementation of profile linking functionality*, Despite having to depend on other departments the project was delivered on time.
- 2011 **Switch implementation for Travelport**, *Help in PTR fixing to keep the project on track*, The PTR backlog was drastically reduced.
- 2011 **External booking integrator custom Amadeus services**, *I've fully implemented the sell/modify/cancel services for one step booking and booking notification interfaces*, Project fully delivered on time.
- 2010 **User profiles backend**, *Development of a python script to patch profiles in production*, The script has been used to delete comments made by the Hotelier that contains credit cards data, it allows us to clean the PRD database from 10k credit cards in clear text.
- 2010 **User profiles backend**, *Implementation of new version of the service that connects with ESS and PGW*, Project fully delivered on time.

Some projects completed during my studies at UPM

- 2007-2008 **C compiler written in python language.**
- 2007 **Minikernel programming with basic functions.**
- 2005-2006 , *I/O polling and interruption programming in assembler into a MC68000 processor, RAM memory and a MC68681 DUART.*
- 2003-2004 , *Cache memory management in a 88110 processor.*
- 2002 **Microcode binary programming of intel i8080.**

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, friendly, responsible and reliable.**