

Alexander Salamanca

Profile

Computer Systems Engineer, with 8 years of professional ALM experience as software developer across different industries using C#, Java and Python and 3 years of system administration duties in diverse Windows ecosystems in an energy sector company.

Skills

- Programming and studying code in Java, C# .NET, C++ (Windows API), Python, Javascript and PHP.
- Design and Construction of Software Projects under systematic methodologies such as Scrum in an ALM framework.
- Database Development on MS SQL Server, PostgreSQL and Oracle 11G.
- Solid knowledge and experience in Microsoft Team Foundation Server for Software Life Cycle Management (Branches, Work Item customizations, Reports and Kanban Boards), svn and git.
- Algorithms Formal Analysis.

Key Achievements

- Reduced bottlenecks in SDLC, lowering deployment time to tens of minutes from several hours, using customized TFS templates and in-house developed C# tools for parallel compilation, encryption and merge of artifacts in codebases of around hundreds of kloc.
- Developed an ETL system in Python and PostgreSQL for identifying unique people from incomplete data of diverse databases, enduring 7 years of production use for prioritizing Bogota government social services (city w/ population of 9M people).
- Customized and deployed auxiliary tools for improving duties as sysadmin: license management, kanban board, inventory tracking, and also developed a C# web app for accessories self service, all in all optimizing overall resources usage and providing traceable metrics of IT costs per user.

Experience

ROSEN GROUP - RTRC COLOMBIA

Local branch of german multinational in oil and gas assets integrity sector.

2013–Present **IT Manager.**

Resident sysadmin who also works as link between surrounding processes and coordinates what is necessary to keep the infrastructure running with levels of corporate compliance bordering 100% for Q1/2016. I help to support a mature technology platform in terms of clients, servers and connectivity for a thriving +60 people global software development business, working under a yearly operation budget of 200K EUR and executing capital investments for special projects between 2013 until now.

2011–2013 **Software Configuration Manager.**

Developer successfully coordinating everything ranging from the Source Code Build Process to the MSSQL Databases Preparation for a Continuous Software Development Integration along every important milestone for the company between 2011 and 2013.

2010–2011 **Software Developer.**

Implementer of fluid leakage algorithms in ROAIMS - Spillage Assessment in 2010 under C#.

Consulting Net S.A.

Software shop provider of software development services to the government.

2010 **Java Senior Consultant.**

I've implemented bug fixes of issues from official government portal (www.gobiernoonlinea.gov.co), under (SOA) service oriented architecture guidelines. I also implemented a RSS publisher that was online since 2010 up to 2014, and a software module for database synchronization between MSSQL server instances.

AERXA Ltda

Personal Entrepreneurship stint as software development services provider.

2009–2010 **Software Technical Leader.**

I coordinated project design and development on a range of systems such as: Web electronic clinical system, hospital feasibility calculator, web project tracking software and government contracts search engine. I designed and formulated IT implementation project. I advised consulting assignments on IT applied to the Health Sector. I designed and developed a project for implementation of monitoring and evaluation of hospitals, nationwide in Guatemala, funded by IADB with a budget of more than 100K USD and a transnational team of 15 technical and business people on MS .NET and MSSQL.

Social Services Bogota District City Secretariat - Information and Data Processing Unit

Bogota City Government Entity responsible for Social Services Allocation and Handling

2008–2010 **Software Engineer.**

I designed and implemented an unified database system for population focused social services (search it on the web as "Base de Datos Poblacional Bogota" and see how the data model is still in use), with intelligent name matching techniques for data merging; I designed and implemented committee project tracking web tool; I implemented the SQL queries to solve several information needs and prepared the data reports for the analysts; I implemented name and surname statistical identification tool on databases with missing data using PostgreSQL and OSS.

National University Of Colombia - Telemedicine Centre

Research and Development University Group, affiliated to the National University of Colombia

2007–2008 **Software Engineer and Junior Researcher.**

I implemented an e-learning management system project for the Medicine College that still is online based on sakaiproject and PostgreSQL: www.sofia.unal.edu.co . I also developed a software project for Videoconference streaming on Flash. I designed and implemented: A web app for telemedicine contracts tracking, a telemedicine data warehouse based on Pentaho, software for storing and passing intermediate care messages under a queue of messages under J2EE.

National University Of Colombia - Engineering College

2006–2008 **Teaching Assistant.**

Introductory computer programming and informatics (Excel and databases), undergraduate level courses.

National University Of Colombia - Academic Secretariat - Engineering College

2005–2006 **Junior Software Engineer.**

Implemented a workflow project and automated process management initiative for Engineering College's Academic Secretariat, using formal BPMN process modeling under BonitaBPM

Formal Education

2010–2012 **Specialist Degree on Information Technology Management**, *Externado University of Colombia*.

2006–2008 **Masters Degree on Systems Engineering and Computer Science**, *National University of Colombia*.

2001–2006 **Systems Engineer Degree**, *National University of Colombia*.

Complementary Coursework and Certifications

10/2015 **VMware Certified Professional V550 Preparation Course**, *Stanly Community College - VMware IT Academy*.

6/2015 **SQL Server 2012: Administration and Advanced Queries**, *Stefanini Informatica y Tecnologia*.

12/2013 **Microsoft Certified Professional in Application Lifecycle Management, TFS 2012 and MS Project 2013**.

6/2012 **Project Management Professional Certificate**, *Project Management Institute*.

Published Papers

By request

Business References

By request