

Itiel Alvarez

SOFTWARE ENGINEER

Tampa, FL - Email me on Indeed: [indeed.com/r/Itiel-Alvarez/147a33dc76e90a6e](https://www.indeed.com/r/Itiel-Alvarez/147a33dc76e90a6e)

- Electronic and Telecommunications Engineer, with a great technical aptitude strengthened for almost 12 years of working experience in IT environments and a great passion for software engineering and technology projects.
- Solid skills developed during the last four years, in the design, operation, and administration of applications and infrastructures on the AWS cloud, also developing backend applications in Java delivering robust RESTful web services for an internal API, and developing and managing native iOS mobile solutions.
- Strong skills in algorithmic thinking and programming practices (Data Structures and Algorithms, OOD and OOP, Parallel Programming). Experience with different software development paradigms/models (Agil, waterfall).
- Extremely passionate about research, innovation, analytical thinking, integrations, optimizations and problem solving, and a rigorous attention to details.
- Broad experience and great skills set in project management, software architecture, infrastructure, technical leading and full SDLC experience. Familiarity with the design and development of cloud, mobile, web, and desktop solutions.

WORK EXPERIENCE

SOFTWARE ENGINEER

Tampa, FL - February 2014 to May 2017

Responsibilities:

- Search Processes and Infrastructure. Core back-end processes for Search and Suggestions. Modeling, data design, management and optimization of business categories and custom taxonomy. Data sources integration.
- Design, architecture, administration and support of a fully based Amazon Web Services (AWS) Cloud platform for Listas Locales. System administration and application development using the AWS Management Console, Java SDK, or AWS APIs.
- SEO strategy and internal development project. Current knowledge of trends and related Google updates, working experience on Google guidelines (webmasters, quality, and content), and up to date approach for relevant quality content, and enhanced crawlability.
- Upgrade, improvement, maintenance and support of natives iOS and Android applications, currently published on the app markets.

Skills:

- Back-end Design and API Development, using AWS Java SDK. RESTful web services, J2EE development skills, design principles using JAX-RS. Deployment and support of web services on Glassfish/Tomcat servers.
- Design, built and management of a custom cloud platform based on AWS services. Experience with AWS Architectures and Foundations. Great skills with Cloudsearch, EC2, S3, RDS, VPC, IAM, Route53, CodeDeploy, Autoscaling, Elastic Load Balancing, CloudFront, CloudFormation, SES, CloudWatch, CodeCommit, and other services. System administration on AWS using the Management Console and CLI. Custom developments using AWS SDK and APIs.
- Design and development of ETL processes (design and development, custom code in Java) using Talend Open Studio. Migrations, data optimization, data mining.
- Front-end native apps development, mainly for iOS (Objective C, Xcode, iOS 7--9), and slightly for Android platform. Solid skills in X-Code and Objective C programming, debugging and testing. Integrations with third-

party APIs and ours. Full management of Apple Developer / Google Play Developer profiles and apps lifecycles, including updates submission to app markets.

MOBILE APPLICATION DEVELOPER

TYPE2DESIGNS INC - Tampa, FL - September 2013 to February 2014

Responsibilities:

- Development of iOS mobile applications, integrated with backend (cloud) APIs such as Quickblox and Parse.
- System administration and application development on Amazon Web Services (AWS) Cloud platform using the AWS Management Console, or the AWS APIs. Design and development of a web client demo for Amazon Cloudsearch service testing, and evaluation approach for integrations.
- Development of a Java Application Layer using AWS Java SDK, including RESTful Web services design and development, and also the integration with Amazon RDS (MySQL database engine) and Amazon DynamoDB.

Skills:

- Front-end mobile applications development, mainly for iOS (Objective C, XCode).
- iOS native applications development (iOS 6 and 7). Solid skills in X-Code and Objective C programming, debugging and testing. Design of a richest UI and complex interactions. Consumption of REST services/JSON data from backend.
- System administration and application development on Amazon Web Services (AWS) Cloud platform using the AWS Management Console, or the AWS APIs. Essentials on AWS Foundations and Architectural.
- Application development using AWS APIs and SDKs for Java/PHP/.NET/Mobile, intensive initial experience with the Java SDK, and general notions in the PHP,.NET and Mobile SDKs. Current and increasing skills with Cloudsearch, EC2, S3, RDS, VPC, IAM, Route53 and other AWS services.
- Design and development of RESTful web services, using JSON data format at backend J2EE application (development skills, design principles) using JAX-RS.
- Design and development of ETL processes (jobs, routines, custom code) using Talend Open Studio.

SENIOR SOFTWARE ENGINEER

QUITO, EC - September 2012 to March 2013

Responsibilities:

- Co-leader in project planning, analysis and design, and subsequent management of two projects: 1. A customized solution including a mobile app that consumed WCF REST Services written in Mono Framework on Ubuntu Linux, with REST Services sending info in JSON format. 2. A mobile-web solution in which Back-end were WCF REST Services hosted on Windows Azure, sending JSON data to mobile devices, while Client side required multiplatform development for Android and iOS using Titanium Framework and Alloy MVC.

Skills:

- Project planning, analysis and design. Software project management.
- Gathering customer requirements, business requirements definition, writing software specifications.
- Front-end mobile applications development, mainly for iOS (Objective C, XCode), and somewhat for Android (Java, Android SDK).
- iOS native applications development. Solid skills in X-Code and Objective C programming, debugging and testing. Design of a richest UI and complex interactions. Consumption of WCF REST services/JSON data from backend.
- Multiplatform development using Titanium Framework (essential notions). Development of REST services/JSON data at backend C# application (general development skills and design principles). Working experience with Git for software version control.

TECHNICAL LEAD. SENIOR SOFTWARE ENGINEER

EXTREMO SOFTWARE S.A. ECUADOR - July 2012 to September 2012

Responsibilities:

- Technical leader of an ongoing project, supporting the development team in the areas of architecture (design, analysis), version control, development and testing, infrastructure requirements and application of SCRUM methodologies.
- Senior software engineer. Direct execution of C# development tasks, integration requirements between modules or applications, and data-migration processing in SQL Server 2008.

Skills:

- Project planning, analysis and design. Software project management. Basic knowledge and preliminary implementation experience of Agile software development and SCRUM methodologies. Functional Testing.
- Data integration and migration processes in SQL Server 2008, using DTS/SSIS and Talend. Design and editing of stored procedures. Analysis and logging of SQL Server 2008 databases transactions and data operations.
- C# development for additional functions and customized DLLs of Microsoft Dynamics. Design and architecture proposal of enterprise solutions, integrating Microsoft applications and services: K2, SharePoint, Dynamics GP.
- Familiarity with principles and practices of software version control. Working experience with Visual SourceSafe and Team Foundation Server.

FOUNDER/ CTO. SOFTWARE PROJECT MANAGER

SOLUTIP CIA. LTDA - QUITO, EC - April 2011 to June 2012

Responsibilities:

- Software Project Management.
- Business Analytic Leader.
- Technical Leading for Mobile Application Development.
- Senior Software Engineer.
- Support and internal consulting for technical or infrastructure projects.

Skills:

- Software projects management, based on PMI-PMBOK guidelines.
- Design and writing of essential software engineering documentation. Greater skills in gathering customer requirements, business requirements definition, and software specifications development.
- Projects management for Mobile applications development (iOS, Android, Blackberry, Windows Phone). Project planning, analysis and design. Wireframing. Architectural proposals.
- iOS applications development. Solid skills in X-Code and Objective C programming, debugging and testing. Design of a richest UI and complex interactions. Full management of Apple Developer user profile. Provisioning management. Processes of applications submitting and publishing to App Store. Administration of iTunesConnect account.
- Generation, encoding, streaming and retrieving of a live (or stored) audio content item. Definition of codecs and platform requirements, at both client and server. Proper proofs of concept for iOS, Android, Blackberry and Windows Phone. Outgoing implementations. Analysis and testing using Flash and Silverlight, AAC and MP3 codecs, RTSP and HTTP protocols, SHOUTcast streaming and Real Networks Helix broadcasting services.
- Processes of applications signing, as well as submitting and publishing (to Google Play). Administration of user profile. Similar skills for Blackberry App World.
- Working experience with Android SDK and Blackberry Java SDK programming, practices and workflow and beginner skills in Java programming for Android, and also for Blackberry. Initial experience in debugging and testing.
- Design, development, optimization and administration of open source database engines: MySQL, PostgreSQL, SQLite. Integration and migration processes using Talend.
- Technical Support (Levels 2 and 3) for customers, related to deployed and running software applications.
- Linux systems engineer skills. Administration of Linux servers (CentOS, OpenSuse). Detailed management of Linux/Unix server applications, processes and daemons. Administration of LAMP or LAPP environments. Web

hosting control panel management (C-Panel) and web administration in local and customers development/production environments.

- Design and proposal of web solutions using CakePHP framework (MVC) and PostgreSQL. Hands on PHP/Javascript code for specific tasks of testing and troubleshooting. Functional Testing. Knowledge about CakePHP architecture and workflow, with experience in installation, maintenance and troubleshooting.
- Knowledge of principles, practices and workflow of ERP systems. Familiarity with OpenERP architecture, installation, maintenance and troubleshooting. Hands on Python code for proofs of concept and simple testing.

SOFTWARE DEVELOPER

App Store - QUITO, EC - October 2010 to April 2011

Responsibilities:

- Software development of web solutions, using open source technologies (PHP, PostgreSQL).
- Initial approach, proofs of concept, and intensive self-learning of iOS development. Programming of a multimedia application for iPad.
- Full management of some running projects. Local implementation of PMI-PMBOK guidelines according to acquired skills in taken lessons.
- Design and writing of some essential software engineering documents (for an existing system) using reverse engineering techniques.

Skills:

- Design, proposal and development of web solutions using CakePHP framework (MVC) and PostgreSQL. Hands on PHP/Javascript code for specific tasks of testing and troubleshooting. Functional Testing. Knowledge about CakePHP architecture and workflow, with experience in installation, maintenance and troubleshooting.
- Software projects management, based on introduction and gradual implementation of PMI-PMBOK guidelines.
- Design and writing of essential software engineering documentation. Initial experience in business analytic tasks. Skills in gathering customer requirements, business requirements definition, and software specifications development.
- Development of an applet, using core Java for XML's digital signature module, related to a USB token device. Java development to generate and validate an XML file (Origin certificate), according to a known and preset XSD.
- iOS applications development. Wireframing. Design of simple UI and basic interactions. Initial working experience in X-Code and Objective C programming, debugging and testing. General knowledge about the management of Apple Developer user account. Understanding about processes of applications submitting and publishing (to App Store).

BIOMEDICAL ENGINEERING TEAM LEAD

HIGH TECHNOLOGY DIAGNOSTIC MEDICAL CENTER MARIA GUERRERO RAMOS - CARACAS,
VE - November 2008 to July 2009

CARACAS, VENEZUELA. NOV. 2008 TO JUL. 2009

Responsibilities:

- Biomedical Engineering Team Leading.
- Management of projects, policies and system for Research and Development, nationwide. Management of collaborative relationship with Meditron CA company for MRI/CT equipment and YomaServicios for Ultrasound devices, both were Philips partners in Venezuela.
- Coordination and development of required software for medical technology management and improvement of medical processes, following established guidelines.

Skills:

- Leadership and coordination of a biomedical engineering workgroup. Management of research and development projects. Application of established guidelines and implementation of good practices guide.

- Interfacing and interaction with embedded software of laboratory equipment (hematology, chemistry, urine analyzer) for improved data integration to information systems in local medical environment.
- Design and development of a software platform for the remote analysis and monitoring of quality control of MRI equipment. First stage of development: MATLAB, XML, C++ and C#. Proofs of concept. Validation of algorithms. Initial testing.
- Development and installation of a virtual library platform for applications in health networks (using DSpace. XML and Java).
- Technical Support for doctors and medical technicians, related to the running software applications, either proprietary software from manufacturers or own developments.

BIOMEDICAL ENGINEERING TEAM LEAD

HIGH TECHNOLOGY DIAGNOSTIC MEDICAL CENTER ANTONIO MACEO GRAJALES - 2005 to November 2008

SAN FELIPE, YARACUY, VENEZUELA. DIC. 2005 TO NOV. 2008

Responsibilities:

- Biomedical Engineering Team Leading.
- Management of projects, policies and system for Research and Development, nationwide. Management of collaborative relationship with Meditron CA company for MRI/CT equipment and YomaServicios for Ultrasound devices, both were Philips partners in Venezuela.
- Coordination and development of required software for medical technology management and improvement of medical processes, following established guidelines.

Skills:

- Leadership and coordination of a biomedical engineering workgroup. Management of research and development projects. Application of established guidelines and implementation of good practices guide.
- Interfacing and interaction with embedded software of laboratory equipment (hematology, chemistry, urine analyzer) for improved data integration to information systems in local medical environment.
- Design and development of VxGrab, an application for the capture, DICOM processing, storage and transmission of video endoscopic images. (C++, C#, .NET).
- Analysis and design and writing of essential software engineering documentation for SIEMED, a software platform for clinical health records of patients, consultations reports and other other complementary medical services.
- Application of MATLAB scripts for Panorama 0.23T phantom images inspection. Evaluation and Quality Control.
- Development of some functions in C++, using VTK and ITK, for specific tasks of visualization, reconstruction, segmentation and processing of medical imaging.
- Design and development of an application for quality control report processing of Lexxus Bone Densitometer, using C++.
- Development and installation of a virtual library platform for applications in health networks, using DSpace. XML and Java code adjustments for additional functions and customization.

EDUCATION

CERTIFICATE

HIGHER POLYTECHNIC INSTITUTE JOSE ANTONIO ECHEVERRIA
May 2005 to July 2005

B.S. in ELECTRONIC AND TELECOMMUNICATIONS ENGINEERING

HIGHER POLYTECHNIC INSTITUTE JOSE ANTONIO ECHEVERRIA
2000 to 2005

SKILLS

.NET (4 years), integration. (9 years), INTEGRATOR (9 years), Java (10+ years), XML (5 years)

ADDITIONAL INFORMATION

LANGUAGES

- C/C++, Objective C, Java/J2EE/Android, C#, PHP, Python, MATLAB.
- JSON, XML.

TECHNICAL

- Operating Systems. Advanced User: Linux/Unix, MacOS, Windows, MS-DOS. Administration: Linux/Unix (Suse, Ubuntu, CentOS), MacOS, Windows.
- Development environments: Windows (.NET, MinGW), Linux/Unix (MinGW, Mono), MacOS (LAMP, MinGW).
- Compilers: GCC, Apple, Microsoft, Borland, Java. Debuggers: GDB, Debugging Tools for Windows, XCode debugger.
- Cross-platform applications: Qt, Titanium Appcelerator.
- IDEs: QtCreator, XCode, Netbeans, Eclipse, Microsoft Visual Studio.
- Databases: SQL, MySQL, PostgreSQL, SQLite, SQL Server, noSQL.
- Data ETL: Talend Open Studio, SQL Server Integration Services.
- Cloud Services and Infrastructure: Amazon Web Services (EC2, S3, RDS, VPC, IAM, Route53, Autoscaling, Load Balancing, CloudFront, CloudFormation, SES, CloudWatch, CodeCommit, others).
- Web Services: RESTful WS with JAX-RS. WCF REST Services.
- Scripting Language: Linux-Shell, XML, Perl scripting.
- Management paradigms: Agile development methodologies, SCRUM. PMI (PMBOK). Waterfall model.
- Source code management: Subversion. Git. SourceSafe and Team Foundation.

GENERAL

- Leadership/Management skills. Teamwork skills and interpersonal abilities. Strong Work Ethic. Honesty/Integrity. Loyalty. Professionalism. Self-Confidence. Flexibility/Adaptability.
- Communication and Presentation Skills.
- Motivation/Initiative/Innovation/Creativity. Research/Evaluation. Strong analytical and problem solving skills.