Jan Michael Ibañez

Polyglot developer with 14 years of experience writing software for small and large clients, with a focus on integration and backend/API development.

Skills

Languages	• Python • Java • Clojure • Swift • JavaScript/ECMAScript 5 • TypeScript 2
Database Engines	• PostgreSQL • SQLite • MongoDB • Redis
Platforms/APIs	• iOS • Compojure • Flask • Django • Angular 2

Relevant Project History

Backend & Middleware

Ayannah Inc Created a microservices-style backend system for the startup Ayannah, which deals in remittances and mobile services, enabling more visibility into their transaction data. System utilized Kafka for transaction logging at different granularities, Thrift for RPC between microservices, and Docker for service hosting/deployment.

Globe GMovies Built an API server for the GMovies movie ticketing mobile app on Google AppEngine; API server integrated movie information from various sources, and provided a unified transactional API for handling ticket purchases across different theater systems.

Unreleased Product Helped with implementation and deployment of a custom payment gateway system for a web storefront for a Chrome application, interfacing with Smart Money and GCash as payment endpoints.

Globe Built an API server for integration with Oracle Identity Management, acting as almost drop-in replacement for a legacy Hessian-based API server.

PLDT Global Implemented custom CIMD2 and SMPP endpoints for integration with a Spring Integration-based system for a telco product for overseas customers.

ABS-CBN Integrated Payroll System Worked on an asynchronous batch processing daemon that was hooked up to the ABS-CBN payroll system; the daemon received tasks from the main web app through a Java JMS queue.

Web Applications

Kagami Provided high-level architecture direction for an inventory management system for small businesses; implemented several features with the help of a small development team.

GXS Internal Product As a contractor, helped implement the handling of several new document types for a EDI-compliant legacy B2B platform on behalf of GXS. Helped define rearchitecture of the web application to use XML as a serialized representation of said document types on Oracle 11g. Also built a migration tool to fix i18n/l10n issues due to the use of binary blobs in the older parts of the system.

Leafpile/Sinefunc Implemented several features of an executive search and recruitment web application in Ruby.

ABS-CBN Integrated Payroll System Worked on bonus and talents processing modules of a large payroll system for ABS-CBN. Responsibilities include managing the build environment, adding session-aware encryption support, and managing AOP-related aspects of the system.

Federal Phoenix Co-developed a web-based insurance application system, using AppFuse as a base stack; the project utilized WebWork, SiteMesh, Spring, and Hibernate as packaged using the AppFuse web application/framework.

Mobile & Embedded

BlackBerry/Java Implemented changes to an internal tool for driving sales on behalf of a consulting client, running as a BlackBerry (Java) mobile application, including data-driven unit test infrastructure for checking calculations.

Embedded Designed and built a custom digital signage system on behalf of a consulting client, specified the required hardware for it, and built a custom content distribution system to support it. Integrated an existing third-party application for displaying 3D content onto autostereoscopic displays, into the associated custom content management system for digital signage. Integration involved a small amount of reverse-engineering work to determine necessary integration points with the CMS.

Others

Linux Provided a patch for the now-unsupported Motorola SM56 Linux kernel module that allows it to run on later version kernels in the 2.4 series. The original binary-only module was written for Linux kernel 2.4.6, and kernel memory management semantics for modules changed sometime after that.

- `http://www.sm56.tk/`
- `http://lists.q-linux.com/pipermail/plug/2002-November/023114.html`

Performance Testing Designed and built a plugin for recording and injecting Java RMI requests for the purpose of load testing Java applications using Apache JMeter, subsequently used for a performance audit of a Swing-based client-server application.

- `https://github.com/jmibanez/jmeter-rmi-plugin/`

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