

Waldemar Quevedo

INTERESTS

PaaS & Distributed Systems, Web Development, Literate programming

WORK EXPERIENCE

JAN 2012 - SEP
2014

PaaS Developer and Administrator, [Rakuten](#)

Joined the Rakuten PaaS project as one of the earliest members of the team. The project started as an initiative to improve the development cycle of services by automating away the provisioning of resources and providing a deployment pipeline for application developers, basing on the Cloudfoundry project from VMware.

RESPONSIBILITIES

- Feature development for making the PaaS compliant with what Rakuten users need
- Maintenance and operation of the PaaS
 - Ruby runtime & Rails support
 - Services support: Redis, Mongodb, Log forwarders
 - "Infrastructure as code" approach with Chef
 - Automated provisioning of resources with vSphere as the virtualization environment
 - Capacity management and coordination with infrastructure teams
 - Setup of Cloudfoundry deployments in new datacenters
- 24/7 on call rotation to support issues in the system and users of the platform

LOGGING RELATED PROJECTS

Designed and implemented the log collection infrastructure to be used throughout the PaaS by using Fluentd, given that there was not consolidated logging approach at the time in Cloudfoundry.

Application logs collection and streaming: Modified Cloudfoundry DEA component so that it would attach a background Fluentd process dynamically to an application during boot, so that it would persist any generated logs by forwarding to a log aggregation layer, as well as enabling realtime 'tailing' support of the log stream through the CLI. (e.g. `rpaas tail <appname>`)

Reopening Fluentd plugins was needed in order to include into the emits generated by the users, information to identify the logging source to route the correct endpoints.

Log forwarding endpoints integration: Collaborated with Hadoop and Splunk teams to re-route the collected logs from the PaaS to send to their environments.

Defined the SLAs needed to clarify the responsibilities from these collaborations (log delay, buffering size) as well as writing Fluentd plugins to normalize the emits so that it would fit the format expected by those teams.

Logs routing as a service: Enhanced the architecture so that log forwarding bindings could be created dynamically by users. This way a user could define through an API whether the access and application logs generated by an application should be routed to other endpoints besides the default persistence storage.

The mechanism here was to have a Fluentd polling the configuration about the logging service bindings from a user (approach done by Cloudfoundry services components) to create

forwarding rules to route the emit to the defined endpoint.

OCT 2010 - DEC 2011	Application Engineer, Rakuten Worked as part of the Rakuten Research Development Team. This is a service which allows registered Rakuten members to take part in marketing research surveys in exchange of Rakuten points that can be used on the main Rakuten Ichiba shopping site and other parts of the Rakuten ecosystem. The main tasks involved were the maintenance and operation of the Rakuten Research systems, as well as adding new features to the product.
APR - AUG, 2010	Google Summer of Code Student, OpenStreetMap Through the Google Summer of Code program, I worked on a web application for OpenStreetMap to create and customize printable maps using spatial data. The main technologies used were Django, Twisted and Mapnik.
MAY - DEC, 2009	Backend Developer, Inovaz Worked as an intern at Inovaz, a software startup partly based in Guadalajara, Mexico and London (nowadays they go under the name of Wepow). I took part of the backend team working with Rails 2.3. The project I was working on was FatStudent , a platform where university students from London could apply for part-time jobs using a video CV. The application went live during my internship and turned into a successful launch for students from the University College London.

EDUCATION

OCT - DEC 2014	Hacker School in NYC Joined Fall batch of HackerSchool where I have been focusing on exploring the potential of using Org mode in non Emacs environments.
2004 - 2010 <small>INSTITUTION</small>	Bachelor in Computer Science and Technologies Monterrey Institute of Technology and Higher Education, campus Guadalajara, Mexico
APR - AUG, 2007 <small>INSTITUTION</small>	Exchange Student Ritsumeikan University. Kyoto, Japan

ACTIVITIES

ORG MODE RUBY PARSER MAINTAINER	Maintainer of the Org mode parser used in Github for rendering <code>.org</code> files into HTML (link). Also develop other proof of concept tools that base on the literate programming functionalities of Org mode to create documentable reproducible runs (Example).
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TECHNICAL SKILLS

PROGRAMMING LANGUAGES	Most comfortable working with Ruby, Python & Javascript
PAAS	Cloudfoundry, familiar with ecosystem around Mesos.
GIS	OpenStreetMap Toolchain: PostGIS, Mapnik

LANGUAGES

SPANISH	Native
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ENGLISH	Proficient (TOEFL 617 / TOEIC 880)
JAPANESE	Proficient (Business Level, JLPT 2)
CHINESE, FRENCH	Beginner

PERSONAL INFORMATION

DATE OF BIRTH	May 4 th , 1986
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NATIONALITY	Mexican
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PHONE	+81 80 4098 0884
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E-MAIL	waldemar.quevedo@gmail.com
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SKYPE	waldemarquevedo
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CODE	- https://github.com/wallyqs
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