

BLYTHE DUNHAM

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STRENGTHS

- Top-notch, backend server architect with **4+ years of Rails experience (11 yrs software)**
- Accomplished in building scalable, robust and fast enterprise web apps in the clouds
- iPhone app development and server/iphone integration experience

Languages Ruby on Rails, AJAX, Objective C (iphone), Javascript, Prototype, JQuery, XML, XHTML, CSS, HTML, C/C++/C#, some Java, JNI, JSP
Databases Certified MySQL Database Admin (CMDBA), NOSQL MongoDB, SQLCE, some Oracle, SQLServer, DB2
Server MacOS, Windows, Apache, Linux, Unix, Nginx, Mongrel, LAMP, AWS (cloud, S3)
Technologies Engineyard frmk
Development Agile, Capistrano, Chef, Netbeans, TextMate, Aptana(Eclipse), xCode, Visual
Environments Studio, Rational Rose, SVN, GIT, Clearcase

PRESENTATIONS AND PATENTS

[Analyze This!](#), RailsConf 2010, Baltimore, MD
[Hey... is that your database crying?](#), Aloha on Rails 2010, Waikiki, Hawaii
[Taking ActiveRecord to the Next Level](#), MySQL Conference & Expo 2009, Santa Clara, CA
[Integrating SMS with Your Rails Application](#), RailsConf 2009, Las Vegas, NV
[Systems and Methods for Advertisements and Event Promotion](#) USPTO: 20080215348

RELEVANT EXPERIENCE

Z2LIVE Seattle, WA (10/09 – present)

- Backend MySQL/Rails server functionality including performance and scalability for the multiplayer iphone SDK
- Analytics and reporting with NOSQL mongodb
- AWS Cloud deployment via EY for a highly customized Rails/Java game server env
- In app purchase with iTunes connect in Objective C for the client iphone SDK

SPONGECCELL *Cofounder and Principal Architect*, San Francisco, CA (2/06 – 5/09)

- Currently focus on performance and scalability of the spongecell enterprise Rails app using techniques including page/action/fragment caching, memcache, and ActiveRecord ORM/MySQL database optimizations (some extracted to gem [ar-extensions](#))
- Designed and implemented scalable, fast, and robust custom analytics tracking system for retrieving user interaction data from the Spongecell Flash Ads. Using 4 analytics servers, handles up to 10k data requests per sec and using a toolbox full of Ruby on Rails and MySQL tricks provides clients with detailed real-time usage reports and graphs using Javascript with AJAX and Prototype.
- 2-way SMS message integration which lead to gem [SmsOnRails](#)

CONTRACTS

[wearepanel.com](#) Built the [Panel iPhone App](#) to stream new music selections each week from a roster panelist

[kashless.org](#) Focused on Rails backend functionality including features such as google base integration, web site scraping, and javascript/html performance and scalability

[secondbutton.com](#) (WIP) - Rails [Spree](#) ecommerce website to order and design custom tailored shirts via a quick JQuery/Javascript design widget

SIEBEL SYSTEMS, INC (Acquired by Oracle Corporation)

Lead Software Engineer, Handheld CE & Core Engineering, Bellevue, WA (8/00 – 2/06)

- Designed and implemented COM scripting support for the Siebel Handheld applications on Windows CE and SQLCE. Offering similar functionality for the handheld client as provided on the server through VB and JS scripting, this feature allows customers to fully configure and extend the vanilla business logic of the Siebel handheld applications.
- As part of a multi-team effort, developed the Siebel Messaging Queuing (SMQ) feature to support out-of-band communication and wireless updates between the Siebel Windows and Unix server and handheld client.
- Serverside data quality and deduplication implementation

ANSYS, INC Pittsburgh, PA 1999 – 2000

As part of the project based Master in Software Engineering Program at Carnegie Mellon, I helped developed application using Java, JNI and C++ to allow users to view and manipulate the results of complex, 3-D structural and thermal simulations and analyses via a web browser.

NTT COMWARE Chiba, Japan 1999

Worked with the business development team on internal applications in Java

INTEL CORPORATION Portland OR and Santa Clara CA, Summer 1997, 1998

Worked on various applications with the Teraflops team and the IA64 firmware team

EDUCATION

M.S. Software Engineering, **Carnegie Mellon University**, August 2000 GPA: 4.0/4.0

B.S. Computer Science, **Carnegie Mellon University**, May 2000, GPA: 3.9/4.0

Phi Beta Kappa, Carnegie Mellon University, 2000

Intel Women In Science and Engineering Fellowship

OPEN SOURCE CONTRIBUTIONS

<http://github.com/blythedunham>

- [ar-extensions](#) Extend ActiveRecord.. Implemented support for insert select, union queries and counts, index hints and enhanced finds, delete options.
 - [health_monitor](#) - Monitor individual aspects of your rails application's health
 - [sms_on_rails](#) instantly integrate SMS support with your Rails application
 - [mysql_migration_optimizer](#) Use unsigned integers, specify col width, and customize the primary key in Rails MySQL migrations
 - [ruby_prof_request_filters](#) - Output ruby prof results to the browser for the current request
 - [static_record_cache](#) – permanently cache ActiveRecord subclasses that contain static data
 - [eload-select](#) – Use :select option with eager loading (:include) for complex AR finds
 - [ARDumper](#) exports ActiveRecord data in yml, xml and csv (paginated for volume data)
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