

Golda Velez

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OBJECTIVE **Remote/Telecommute Software Development or Architecture**

SUMMARY **Versatile Sr Developer / Project Manager / Information Architect**

Experienced technologist able to take on a variety of roles. Can write effectively for human or machine consumption - or both, using appropriate semantic markup. Familiar with modern software development practices, test-driven development and both object-oriented and functional programming styles. Also a pretty decent hacker and debugger. Able to communicate with technical, business and end user stakeholders and design information architecture to solve problems. Love working with a high energy team.

Education: BS Applied Math California Institute of Technology

Languages: Ruby, Python, Perl, Java, PHP, C++, C, Javascript/Ajax, HTML/CSS

Databases & formats: MySQL, Oracle, Hadoop/HDFS, RDF/XML, RDFa, JSON, XML

CMS & Frameworks: jQuery, Catalyst, Restlet, Rails, Sinatra, Drupal, WordPress

Mashups & APIs: Google, Eventful, Facebook, Amazon, other REST-based services

Operating Systems: Linux, MacOS, *nix System Administration, LAMP stack

Code Tools & Editors: git, Perforce (p4), SVN (Subversion), CVS, vi

Project Management: Mingle, OpenProj, Agile practices

EMPLOYMENT HISTORY

2011-current **Data Engineer** for Factual Inc in Santa Monica, CA. Responsible for delivering canonicalized and cleaned data for various applications by coding within Java and Ruby application frameworks. Designed and built Rails and Sinatra application for verifying information via crowdsourcing using Amazon Mechanical Turk API. Innovated a method to automate creation of a gold standard dataset and include gold standard rows in work batches in order to enforce worker quality. Collaborated on difficult data matching projects resulting in meeting and exceeding client contract standards. Fast Ruby scripting to achieve immediate objectives, some Clojure coding. Management of large-scale data projects.

2010-2011 **Contractor, Sr Developer** for Pillar Data Systems in Tucson, AZ. Writing Python plugin for Oracle Virtual Server to interface with SAN device. Developed REST interface to existing command line tool for

administering SAN and NAS storage systems. Maintained and extended existing OO Perl code base.

Also provided independent contracting services to Returnify, LTD for large-scale data analysis of online advertising returns. Created web application using Perl and MySQL to run statistics jobs on demand.

2008-2009

Head of Engineering for Disruptive Logic, Ltd, a New York based startup company in the area of personalization and recommendation systems. Managed team, wrote backend for recommendation system in Java and Perl using RESTlet framework. Wrote "poor man's classifier" to do sentiment analysis using configurable rules in XML using Perl XML parser and advanced regular expressions. Retrieved mashup data using Eventful, Yelp, Amazon APIs. Debugged issues with YUI-based Javascript front end. Designed architecture for producing optimized recommendations for combinations of friends in a social network. Wrote PRD and SOW documents for clients. Wrote small Facebook application using CPAN Facebook module, Facebook Connect and jQuery.

1995-current

Owner, Internet Workshop, a search technology company. Licensee and developer of Webglimpse and Glimpse local search engines. Designed and coded new version of the Webglimpse spider and created a site manager application in Perl. Wrote modules for output customization, insertion of custom ranking algorithms, elimination of repetitive text, management of complex combinations of local files and remote sites to be indexed. Recently released a version of Webglimpse that can combine SQL results with full-text search.

Designed and implemented category-based CMS for use on local websites. Launched <http://bTucson.com> as an adsense supported site for citizen journalism and local feedback. Achieved high levels of SEO and receive between 4-6000 human visitors daily. Developed AJAX-based method of rapidly browsing deep category structure with lightweight browser footprint. Implemented Google API for sharing ad revenue with content writers.

Early on in Internet time, lectured to large audiences on understanding fundamentals of the Web. Taught classes to City of Tucson employees and to the public on the basics of HTML, Perl/PHP, and Javascript. Created websites, installed LAMP stack software and administered servers for upwards of 100 clients.

Led a team to create a customized search and document management solution for National Law Center for Inter-American Free Trade. Added 'Search within X words' and other specific capabilities to match Lexus/Nexus search features. Innovated techniques using compressed bit vectors to speed up category browsing and searching.

Researched semantic technology use cases and wrote freelance articles

for Linux Journal, Wall St & Technology and Semantic Report.

"RDFa for Web Publishers" - Linux Journal July 2008

"Managing the Data Flood" - Wall St & Tech July 2008

"Breaking into the Semantic Web" - Semantic Report July 2008

Developed a unique bookmarklet that allows users to make comments anywhere about any URL. Designed RDF vocabulary for 'fuzzy' discussions of statements of opinion.

- 2003-04 Variety of contract work including Drupal and Wordpress PHP coding. As **volunteer**, wrote the back end for a grassroots site that was featured on the main page of the 2004 John Edwards campaign. Collaborated with several other volunteer programmers around the country to create a site that allowed secure lateral interactions among 3000+ active supporters.
- 1996-1998 **Software Engineer**, CompuRAD. Developed user interface in C++ for imaging application. Interfaced with code from 4-5 other engineers providing image processing, database interface, printer interface. Had dumb idea to create the UI as a DTD, implemented that way instead of using a RAD tool. Project was successful anyway.
- 1992-1994 **Support Engineer**, Artisoft. Debugged LANtastic networking assembly code. Specialized in tracing bugs in NetBIOS layer. Worked closely with test engineering group and provided in-house beta testing for new versions. Managed relationship with the vendors for Lantastic for Macintosh and our OEM'd TCP/IP stack. Supervised small development project of a user interface/installation program.
- 1991-1992 **System Administrator and programmer**, Developmental Biology Lab, Caltech. Managed Sun workstation and wrote scripts to use DNA and protein sequence matching algorithms. Also wrote small application 'GeneBook' in DBASEIII+ on Windows to manage sequence repository.
- 1991 **Programmer**, Jet Propulsion Laboratory. Wrote C code to do real-time imaging on OC-300 processing board.

References available upon request

LinkedIn: <http://www.linkedin.com/in/goldavelez>
please view full profile for recommendations.

Not interested in relocation at this time. Telecommute or Tucson based positions only please.