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PROFESSIONAL SUMMARY

Experience in managing and developing technology solutions to address business challenges including optimizing growth, product quality and user experience. Specialities include web applications, online advertising, web and mobile applications, geopositioning data, and information delivery based on real-time physical location of the end-user. Excellent interpersonal and communication skills with a desire to develop web and mobile-based software applications in a team environment.

RECENT PROJECTS

Active Open Source:

- [crypter](#) - In the cloud I needed a devops tool that I could use for encrypting and uploading files to s3. Specifically I used it for staging code before deploying onto cluster of servers, database backups and large document repositories. I wanted a single binary that I could use for any operating system that would not require a lot of additional setup.
- [codap](#) - Concurrent Data Access Patterns which is something I created after after optimizing database and web services calls. The have great increase the performance of a number large IO operations I have been doing in the cloud.
- [httphacks](#) - As I have been writing small Go web services and a couple website I consolidated a few things that I found helpful around the web.
- [dwt_lhj](#) - Darts port of GWT (DWT) was a library I have been using heavily to build very advanced admin interfaces. There was a handful of little things that seemed to be missing like a url route library, data table, pagination ect.
- [goriak](#) - I created this to interface the Go (golang) programming language with the [Riak](#) database. (work in progress)

lhj.me:

Url Shortener

- Written in Go programming language

- Riak using the goriak database driver
- Dart generated javascript
- Twitter Bootstrap css library

Data Management:

- ActionAid - Design and implement a low cost data gathering, data storage, calculation and reporting system to track the global carbon footprint of the organization
- Cabarrus County Farmer's Market - Creation of website with online sales capabilities.

Social Analytics:

- Gather data from a user Twitter account
- Basic reporting interface for users to track marketing efforts

Multimedia Site:

- Integrate multiple sources for audio, video and image content (Yahoo Music, Youtube, Soundcloud, Picasa and Flickr)
- YUI Ajax frontend hooked into custom multiplatform event system
- Turbogears (Python) with CouchDB for storage

PROFESSIONAL EXPERIENCE

Company: Cooper Jackson LLC

2011 - Present

Title: IT Consultant

Project: Creation of Asset Publisher, a product that provides an encrypted document storage system with a searchable, sortable and mappable database of metadata.

Implementation: Dotcloud platform using Python Flask framework and MongoDB to store metadata.

Used Pycrypto 256 bit symmetric key block encryption to store the files on Amazon S3 storage system and Amazon SES for reset password email. Custom event framework design to store the data behind every action and change that happens on the system based on the concept in these blogs

<http://blog.hackingthought.com/2011/12/infoq-events-are-not-just-for.html> and

<http://blog.hackingthought.com/2012/02/event-sourcing.html>.

Company: Cross Country Home Services

2011 - 2012

Title: Consultant - Technology Development

Project: Vendor portal to allow vendors to process claims online

Project: Egolf.com

Implementation: Technological and business analysis of potential website implementations for the domain name Egolf.com. Partnered with several businesses including a sports radio talk show, a training facility, golf resorts and a sports event marketing firm to create an all-inclusive golf experience.

Project: SchoolWorld.com

Implementation: Evaluation of the technology platform existing at a recent business acquisition (SchoolWorld). Recommendation of several changes to the website and to current business and technology practices.

Project: Acquisition of a biodiesel bus company.

Implementation: Research and evaluation of the potential purchase of a company in New Zealand that manufactures biodiesel engines for public transportation systems.

Company: Wachovia Corporation Charlotte, NC 2005-2006

Title: Software Consultant

Project: Implement a data warehousing solution.

Implementation: Used Java to transform data from existing Foreign Exchange Sybase schema to newly created Investment Banking MSSQL schema. Worked with Finance, Foreign Exchange, and Marketing departments to verify validity of integrated data.

Project: Create Java service infrastructure.

Implementation: Using JBoss and MBeans(Management Beans), developed programming components for Java applications that use emailing, paging, and logging. This allowed for distributed components to access common services maintained in a single location.

Project: Improve and maintain sales management system.

Implementation: Improved, organized, and added to contact management system of the Investment Banking sales department using WebLogic and Sybase.

Project: Develop program to recognize and calculate commissions on unusual transactions.

Implementation: Implemented complex business rules in Java to produce data used to calculate the commissions due for large foreign exchange transactions.

Company: SocialServe.com Charlotte, NC 2001-2005

Title: System Architect

Project: Design and implement portal for Non-Profit agencies.

Implementation: Used existing server setup with PHP and Postgresql. Developed simple transaction

management process for PHP web applications.

Project: Design and implement solution for online housing search engine.

Implementation: Analyzed available frameworks and decided to use J2EE, EJB, JBoss and JPublish as MVC web framework. Installed and maintained RedHat 7.3 with Apache, PHP, JBoss and Postgresql. Configured optimal JBoss cache engine and designed new customized caching system.

Project: Design and implement call management system.

Implementation: Created a J2EE, EJB, JBoss and Jython web application to manage phone calls and emails to landlords.

Project: Develop Linux build system using Python, Cheetah, LDAP, and shell scripts.

Implementation: Used Python to query LDAP database for server configuration information and Cheetah template engine to generate configuration files for entire server setup. Implemented original distribution using RedHat 7.3, later converted to SuSE 9.0.

Project: Create and maintain office computing resources.

Implementation: Created build system for configuration files using LDAP, Apache, PHP, JBoss, NFS, LDAP, BIND, Postfix, Amavisd and DHCPD. Setup Kerberos server on PowerPC hardware and obscure Linux distribution for security reasons.

Project: Create form software development kit.

Implementation: Using J2EE, EJB, XML and public key encryption, design and implement a form system that will store the form inputs in XML and the responses encrypted in XML. Initial interface developed in HTML but programmed to be able to support other clients' interfaces.

Project: Create Java build system using Ant, Python and XDoclet and mentor new hires on J2EE, EJB, JPublish, Jython, MVC, JBoss, SQL, Design Patterns and Java.

Implementation: Used XDoclet, Ant and Python to generate classes and XML files to reduce the amount of maintained code in the system. New hires were trained on J2EE and EJB so they could understand what code was being generated for them and why. Also new hires were trained on Jython, CVS, JBoss, SQL and advanced Java so they could contribute code to the projects.

Project: Develop test suite for Java software projects.

Implementation: Analyzed test suites and decided to use Jython. Jython allowed a smaller organization to write more tests in a shorter amount of time than Java test suites. This also provided a scripting interface into the Java code base for rapid development, hot fixes and data conversions. Developed scripts to run test suite and email errors to developers.

Company: Java Enterprise Solutions Baltimore, MD

2000-2001

Title: Trainer

Project: Teach classes to groups of students on Vitria software.

Implementation: Taught seven-day classes on implementing solutions in Vitria software. Other material covered was CORBA IDL and Java integration into Vitria.

Project: Develop manuals and workbooks for beginner Java course.

Implementation: Used XML, XSL and JSP to write the manuals so they could be easily transformed into HTML or PDF.

Company: Corporate Information Technologies Charlotte, NC

1998-2004

Subcontractor – Programming and Networking

Project: Develop Web framework.

Implementation: Used Python, Cheetah and Postgresql to develop a simple RDBMS web interface, allowing for extremely fast application development.

Project: Develop HTML/PDF reporting system.

Implementation: Used XML, XSL, and Python to generate PDF documents and sales reports. Generate sales reports in XML and use XSL to convert them into HML or PDF.

Project: Create an Oracle 9.x build system.

Implementation: Developed build system with SuSE 9.0 that would automatically install, configure and import data from an old server to a new Oracle server. Developed shell scripts to import data and template tablespaces so configuration files were platform independent.

Project: Create .NET API for sales reporting.

Implementation: Created library of objects to centralize code in report development using VB.NET and MSSQL. Used VB.NET to connect to MSSQL and used Access databases to retrieve sales information.

Project: Design and develop customer relationship management and documentation system.

Implementation: Using mod_python and Postgresql, developed website to track technical documentation, billing information and customer information. This system allows customers to login, request service and view documentation, allows for internal technical employees to submit and store technical information about the customer's networks, and provides internal company staff ability to generate sales reports and other relevant customer information.

EDUCATION

1995-2000 UNC Charlotte Charlotte, NC
B.S. Computer Science

LANGUAGES

English and Spanish

OTHER ACTIVITIES

Sailing - <http://tkboo.blogspot.com/>

Board Member of the Cabarrus County Boys & Girls Club

Board Member of the Cabarrus County Farmers Markets