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Experience

Software Developer, OpenBoxes

Shorewood, WI — Jan 2014 - Present — Grails, Tomcat, MySQL, JIRA, GitHub

OpenBoxes is an open-source supply chain information system designed to track the movement and inventory of medications and consumables for healthcare facilities in developing countries (github.com/openboxes/openboxes).

- Developed new features, enhancements, and bug fixes.
- Developed a REST API to allow integration with OpenBoxes.
- Supported implementations in US, Haiti, Malawi, Rwanda, Liberia, and Sierra Leone.
- Built a community website to provide support for users (openboxes.com).

Software Consultant, TelmedIQ

Victoria, BC — Sep 2015 - Aug 2018 — Grails, Tomcat, MySQL, AWS, GitHub

HIPAA compliant communication solutions that connect healthcare teams and simplify the coordination of patient care (telmediq.com).

- Developed features / hotfixes for customer-facing web app as well as REST API.
- Deployed to Amazon EBS; also using S3, RDS, ELB, SNS.
- Configured continuous integration testing through CircleCI.
- Integrated with Amazon SNS to deliver push notifications.
- Integrated with Apple's HTTP/2 push notification API.

Software Consultant, KinectUs

Cambridge, MA — Apr 2013 - Present — Grails, Tomcat, MySQL, AWS, BitBucket

KinectUs is an iOS application that allows people to connect with one another based on shared interests (kinectus.net). App store launch expected in early February 2015.

- Developed REST API for iOS app using Grails, MySQL.
- Deployed to Amazon EC2; also using S3, RDS, ELB, SNS.
- Integrated with Spring Security to provide authentication/authorization.
- Integrated with machine learning algorithm using Weka.
- Integrated with Urban Airship and Amazon SNS to deliver push notifications.
- Performed comparative analysis between AWS and HP Cloud.
- Developed backend admin console using Grails and MySQL.

Software Consultant, HarvardX, CATCH

Cambridge, MA — May 2013 - Present — Grails, Tomcat, MySQL, AWS, GitHub

CATCH is an open-source framework for storing and indexing annotations from digital media sources such as text, image, video, and audio (github.com/annotationsatharvard/catcha).

- Developed REST API for annotation storage used by several edX courses.
- Deployed application to Amazon's EC2 instances.

Software Consultant, RoadWars.com

Cambridge, MA — July 2013 - Jan 2014 — Grails, Tomcat, MySQL, HP Cloud, HAProxy

Road Wars is the first driving game designed to make you a safe driver (roadwars.com).

- Developed REST API used by Road Wars iOS application.
- Developed backend admin console using Grails.
- Performed comparative analysis (Heroku, Cloud Foundry, HP Cloud, and AWS).
- Deployed to HP Cloud using two Tomcat instances fronted by HAProxy load balancer.

Software Developer, Partners In Health, OpenBoxes

Boston, MA — Apr 2010 - Jan 2014 — Grails, Tomcat, MySQL, AngularJs, JIRA

Partners In Health (PIH) is a non-profit organization that provides quality health care in the developing countries of Rwanda, Lesotho, Malawi, Haiti and Peru. OpenBoxes is an open source supply chain information system (openboxes.com) that began as a response to the increased need for supply chain visibility after the 2010 earthquake in Haiti.

- Involved in all aspects of design, development, testing, devops and implementation.
- Implemented system at Hôpital Universitaire de Mirebalais in Haiti.
- Trained users at our warehouses in Port au Prince and Miami.
- Improved stock visibility at PIH depots in Port au Haiti, Miami, and Boston.
- Improved tracking of shipments from all depots, as well as international suppliers, to the 12 health centers that PIH operates in Haiti.
- Lowered costs and enhanced quality of care by decreasing the amount of expired medications and preventing stock outs through consumption tracking.
- Implemented database replication using SymmetricDS to alleviate problems caused by Internet/electricity outages at our international sites.
- Worked closely with PIH International Operations team to solicit requirements, provide support, train users, and document standard operating procedures.
- Led a team of ThoughtWorks developers using Agile methodology.

Software Developer, Partners In Health, OpenMRS

Boston, MA — Nov 2005 - Apr 2010 — Java, Tomcat, MySQL, BIRT, Pentaho, YourKit, JIRA

OpenMRS is an open source medical record system (openmrs.org) used in developing countries.

- Lead developer of core OpenMRS and reporting modules.
- Focused on reporting frameworks using Java, Spring, Hibernate, and BIRT.
- Mentored student developers (Google Summer of Code 2006 - 2012) .

Software Consultant, Nutropia.com

New York, NY — 2005 - Present — Java, EJB, JBoss, PostgreSQL

Nutropia is an online gourmet food delivery company that specializes in customized meal plans for individuals and companies.

- Developed a new customer-facing and admin webapp using Java, Hibernate, Spring.
- Improved performance of legacy web app using JProbe and Optimizelt.
- Maintained legacy web app using EJB.

Software Engineer & Project Manager, Thomson Learning

Boston, MA — 2003 - 2005 — Java, EJB, WebLogic, Oracle

Thomson Learning provides integrated information solutions to higher education customers.

- Developed customer catalog web application for all of TL's major imprints.
- Co-authored and published a best practices guide on J2EE for all TL developers.
- Managed remote development teams in India and the US.
- Reviewed RFP submissions to help choose vendors for projects.
- Wrote requirements (use cases) for all projects.
- Conducted usability tests using paper prototypes and mockups.
- Performed weekly code reviews and unit/load testing.
- Performed performance tuning of applications using JProbe and Optimizelt.

Software Engineer, iLrn - Digital Learning Interactive

Medford, MA — 2001 - 2003 — Java, EJB, WebLogic, Oracle

iLRN specialized in the publishing of online learning resources within the e-learning market.

- Developed e-learning web application using Java.
- Developed administration web application used to manage accounts.
- Responsible for build/release activities for all applications.
- Migrated applications from WebLogic 6.x to WebLogic 7.0

Software Consultant, Tallan, Inc

Glastonbury, CT — 2000-2001 — Java, EJB, WebLogic, Oracle

Tallan is a consulting firm specializing in the development of strategic business systems.

- Completed two month training program in Java, databases, Unix and UML.
- Developed internal enterprise applications using EJB & XML on WebLogic / Oracle.
- Developed workflow system for Tallan's internal bug tracking system.

Education

Columbia University, School of Engineering and Applied Science

B.S. Computer Science — 1996-2000

Skills & Interests

Languages

- Java
- Groovy
- Python

Frameworks

- Grails
- Spring MVC
- Spring Security
- Spring Web Flow
- Hibernate
- Liquibase
- Quartz
- Django
- JUnit
- Geb
- Spock

Web Technologies

- REST API
- jQuery
- Twitter Bootstrap
- AngularJS
- NodeJS
- JSON
- CSS
- HTML

Cloud

- Amazon EC2
- Amazon ELB
- Amazon S3
- Amazon RDS
- Amazon SNS
- Google Cloud
- HP Cloud
- Digital Ocean
- Urban Airship

Database

- MySQL
- MongoDB
- PostgreSQL
- Oracle

Developer Tools

- Git
- Subversion
- SymmetricDS
- Atlassian Cloud
- BitBucket
- YourKit
- IntelliJ IDEA
- Eclipse STS
- JIRA
- Confluence
- GitHub
- Zabbix
- Bamboo
- Jenkins
- NewRelic
- Read the Docs
- JMeter
- Nagios



Deployment

- Tomcat
- Apache (httpd)
- Jetty
- JBoss
- WebLogic
- HAProxy

Reporting

- BIRT Reporting
- JasperReports
- Pentaho

Operating Systems

- Ubuntu
- Mac OS X