

# CHRISTIAN RYAN CAPERTON

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Sixteen years of software development experience, including software applications, web applications, and backend systems design. Excellent written and interpersonal communication skills. Extensive, varied knowledge and experience, including:

- Java: 13 years
- JSP/Servlets with Tomcat: 10 years
- Spring: IoC/DI- 5 years, MVC- 2 years; OR/M- 2 years
- Design Patterns: 2 years
- Unit Testing (JUnit with EasyMock/Mockito): 8 years
- Build Management Tools: Ant-6 years; Maven-1 year
- DBS: RDBMS (Oracle, MySQL, PostgreSQL, SQLServer)- 12 years; NoSQL (DynamoDB)- 1 year
- Continuous Build Integration (Cruise Control, Jenkins): 6 years
- Version Control Systems (CVS, SVN, Perforce, Git, GitHub): 10 years
- Iterative Release Cycles with Scrum/Agile: 8 years
- Amazon Web Services (EC2, EBS, EB, RDS): 3 years
- Perl (CGI, mod\_perl, OO): 8 years
- Linux administration and shell scripting: 17 years
- C++: 4 years
- C: 2 years
- HTML/JavaScript/CSS: 13 years

## **EXPERIENCE**

### **Performics**

**Chicago, IL**

Advertising agency for performance marketing services and technological solutions in the digital marketing industry

#### *Senior Software Java Engineer*

11/10 – 03/14

- Design and implement a single sign-on for internal apps based off a daily synch to corporate LDAP.
- Design and implement a web portal solution using Liferay (open source Java enterprise portal) for account management, report document hierarchy management, and SEO campaign launch assistance using custom developed portlets.
- Design and implement multiple ETL processes for both internal and external client delivery involving Web Services, RDBS, FTP, DynamoDB and Salesforce.
- Design and implement a URL and tag checker that reports URL responses and proper tag placement through a portal solution for manual user submission and a backend, automated solution for daily checks of keyword based URL's.
- Design, implement, and maintain common utility libraries.
- Administrate and architect production/staging/development systems in AWS spanning AWS technologies EC2, EBS, S3, RDS (MySQL, SQLServer), SimpleDB, DynamoDB, Elastic Load Balancing, and Elastic Beanstalk, considering fault tolerance and quick system recovery through pilot light backups.
- Assist in designing server and application alert/monitoring management through log4j appenders, syslog, and Zenoss.
- Participate in team code reviews where every line of code is reviewed before code submission.
- Participate in story discoveries, story writing, internal and external demos as part of two week Scrum cycles.
- Mentor junior developers in alignment with team lead responsibilities.
- Work with other engineering divisions as QA for designing test cases and DevOps for systems design.
- Cut tags, manage builds, and promote code through dev/staging/prod environments.
- Principal contact for 24/7 support of team services.

### **Element 115, LLC.**

**Chicago, IL**

Web content management solutions for public and internal web sites

#### *Senior Systems Architect*

12/09 – 10/10

- Design and architect Java based backend and JSP solutions for the Fatwire Content Management Server API to build Fatwire's template based models for client web portals.
- Develop a Comments and a Q&A Servlet
- Mentor a junior team in best practices covering SVN, code reviews, Unit Testing, and daily status meetings.

**Google, Inc.****Chicago, IL**

Internet search and ad services developer and provider

*Software Engineer*

3/08 – 11/09

- Implement a system that synchronizes bi-directional data between legacy Oracle databases and Google BigTable/MegaStore databases for SEM data. The system involves data mapping, computation, and aggregation; AppWorx for workflow on legacy systems for data migration; data loaders on Google stack; domain object creation; domain objects translation into Google protocol buffers; object verification and logging of bad data; and persistent data storage. System includes data monitoring and alert triggers. Millions of records synchronized through system daily. This data synchronization team involves 12 engineers, distributed over three offices.
- Participate in Google's software engineer code reviews, reviewing 4-6 perforce change lists of code submissions per week, involving all aspects (data synchronization, front end user interface design, API design) of the larger team project.
- Participate in team's bug fix effort where each individual's goal is to claim and fix one system bug per day.
- Participate in production code deployment, write configuration files that control job resources in the distributed application environment, and write monitors that trigger threshold alerts of the production jobs.
- Share duties in team on call rotation to provide 24/7 support of services.

**DoubleClick, Inc. (acquired by Google 3/08)****Chicago, IL**

Developer and provider of digital ad services

*Software Engineer*

5/07 – 3/08

- Principal designer of a distributed database synchronization system using Perl for click/redirect servers. This system distributes data over twenty databases, daily synching over a million product records with landing page information, allowing automatic data recovery when databases come back online. The system services tens of millions of customer clicks a day.
- Assist team development of a clients to publishers product feeds system that ETL'd daily client feeds to internal system to ETL to publisher servers, including a web app for feed configuration. System includes Spring MVC, and Spring IoC/DI, RDMS.

**MusicNow/AOL MusicNow (acquired by AOL 11/05)****Chicago, IL**

An online digital media service providing both audio and video for purchase or subscription models

*Senior Software Engineer*

9/04 – 4/07

- Principal engineer implementing an automated royalty reporting system based in OO Perl creating custom financial reports for more than a thousand licensors in MusicNow's music service, based on digital media plays (audio/video media types, purchase/computer/portable plays). This automated system includes report delivery via FTP or e-mail attachment, notification of report delivery via e-mail, and archiving the reports and associated metadata via PL/SQL functions to a web portal server for historical retrieval. The report automation and delivery occurs weekly, monthly, and quarterly.
- Assist team implementing a billing system for digital media purchases, new account signups, and batch systems for both subscription renewals and billing period ending dates. This billing system includes credit card, debit card, and checking account based transactions. Built as a mixture of PL/SQL functions and Java classes embedded as PL/SQL functions and communicates to a third-party credit card processing agent via XML messages.
- Principal engineer implementing a Java XML parsing tool to dynamically create DMCA compliant radio stations based on availability of songs in the service's library and sourced from the XML feed.
- Assist in development of a custom content management system for the service's digital media library. This includes metadata scrubbing tools; automated tools for censoring of metadata for family oriented viewing; and tools to alias key metadata content (artist/album/song name). Implemented using both CGI Perl and JSP.
- Implement design and features to the GUI portion of our web service using Dynamo server's Java/JSP, JavaScript, and CSS.

**Parity Systems, LTD****Evanston, IL**

A digital solutions maintainer of donations, scholarship payments, and test scores for Rotary Foundation Scholarships

*Senior Software Engineer*

5/03 – 6/04

**Information Resources, Inc.**

**Chicago, IL**

A provider of market sales data of consumer product goods for both healthcare and retail organizations

*Software Engineer*

5/00 – 4/03

**GoodFood Productions**

**Chicago, IL**

A consulting agency for designing web applications concentrated on working with nonprofits and arts organizations

*Software Engineer*

5/01 – 12/02

**Reuters Information Technology, Inc.**

**Oak Brook, IL**

A provider of financial trading systems

*Software Engineer*

6/98 – 4/00

**EDUCATION**

**The University of Texas at Austin**

*Bachelor of Science in Computer Science*

May 1998

**The University of Texas at Austin**

*Bachelor of Arts in English Literature, Minor in Mathematics*

May 1995

**CERTIFICATIONS**

*Sun Certified Java Programmer for Java 5.0*

November 2007

**PORTFOLIO**

GitHub: <https://github.com/ccaper>

- ImageOrientationSort: a backend Java project using Spring IoC/DI that sorts digital images into Landscape or Portrait orientation folders.
- GraffitiTracker: a 3-tier architecture web application project using Spring IoC, Spring OR/M, Spring MVC, Spring Security, Apache Tiles, and Apache Velocity to track crowd sourced graffiti by time and location for mapping. Currently in development, but staging version of latest stable version hosted at <http://graffititracker-staging.elasticbeanstalk.com>

**COMMUNITY SERVICE**

March 2009 – September 2013

*Secretary and Troubled Buildings Representative for Irving Park Concerned Neighbors Association*

- Attend, facilitate, and take minutes of monthly community meetings.
- Represent community at Chicago police CAPS beat meeting and deliver summary of concerns.
- Work with district police commanders, troubled buildings officers, Aldermen, and Aldermen office representatives for anti-crime measures in the sixteen block community area.