

Richard K. Champion

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SKILLS:

- Programming Languages: Java, TypeScript, C++, C
- Operating Systems: Linux, Windows, DOS
- Integrated Development Environments: [Eclipse 2.1-4.14](#)
- Modeling: Eclipse EMF/XSD/UML, Papyrus, ArgoUML
- Persistence: JPA, Hibernate, JDBC, RDB, SQL, XML, JSON, CSV, TEXT, HDFS
- Database Tools: JBoss / Hibernate Tools, MySQL Workbench, SQLExplorer, Squirrel, Eclipse Database Tools
- Reporting / BI: Eclipse BIRT, PDFBox
- MVC Frameworks: SpringMVC, Eclipse DataBinding
- JEE: Containers: Tomcat, Glassfish, JBoss, Jetty, Geronimo, Jetty Embedded
- HTTP: NGINX, Apache
- OSGi: Equinox, Felix, Virgo
- Web Development: Java, Javascript, Typescript, Angular, HTML5, CSS
- Web Services: Spring, JAX-RS, JAX-WS, Axis2
- JavaScript Frameworks: Angular, Dojo
- Embedded Devices: Linux, Java / Android, C/C++
- Imaging: GIMP
- VOIP: Asterisk PBX, Sangoma hardware
- Messaging: XMPP: Openfire, Smack
- Source Control: GIT, Rational Team Concert, Jazz, ClearCase, Subversion, MKS, SourceSafe
- Build Systems, Maven, Ant, Make
- Packaging and Deployment: Eclipse P2
- Software Provisioning: Eclipse P2, Custom Agent-Server, Symantec iCommand
- Network Management Systems: OpenNMS, Zenoss
- Virtualization: VMware, VirtualBox
- Cloud: AWS, EC2, Docker, Spring Boot

EMPLOYMENT:

Software Development Engineer
Siege Technologies, October 2019 – December 2019
Remote
Software Development

- Angular JS Enhancements
- Java / JEE REST Endpoints

Software Development Engineer
Telos / Hanscom Air Force Base, January 2018 – September 2018
Bedford, MA
Systems Integration

- Integrate a JEE application with SSO/OpenAM
- Debug initial implementation and provide feedback regarding defects of the integration effort.
- Establish SSL connectivity to the SSO service.
- Execute a complete test plan for the QA team.

Software Development Engineer
ZdsLogic Technologies, September 2016 – Present
Little Compton, RI
Independent work

- Backend
 - <https://github.com/rcampion/ng9-spring-server>
 - Spring/REST/Java/JPA/JSON/Tomcat
- Frontends
 - <https://github.com/rcampion/ng9-contacts>

- Angular/Typescript/NGINX
 - <https://www.zdslogic.com/contacts>
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- <https://github.com/rcampion/ng9-articles>
 - Angular/Typescript/NGINX
 - <https://www.zdslogic.com/articles>
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- Cloud
 - AWS, EC2, Spring Boot, Docker
 - <http://aws.richardcampion.com/articles>
 - <http://aws.richardcampion.com/contacts>

Real Estate Website improvements

- Added Open House listings to the website.
- Added Lightbox image displays.

Software Development Engineer

Northrop Grumman, June 2015 – September 2016

Providence, RI

- Develop ETL programs to convert text documents to PDF documents using various Open Source tools.
- Retrieve data from SOAP endpoints.
- Populate RDBMS with document metadata into Oracle database.
- Developed a Spring/MVC/JSP application to query the database and display PDF files in the browser.

Principle Software Development Engineer

Promptus Communications, December 2011 – June 2015

Portsmouth, RI

- Install, Configure, Enhance and Monitor IT Servers:
- Assist in the development of prototypes for business development.
- Designed and developed a Distributed Logging Event collector and viewer(s).
A wireless device (TI-MSP430) transmits events to a local device (Java Agent)
Remote agent(s) store common formatted log entries and forward events to a server.
Java Middleware (JPA/JNDI/Hibernate) deposits log entries into a database.
Data can be exported to a Spreadsheet and/or CSV format for further analysis by third party tools. (SciLab).
- Develop and Enhance front-ends and back-ends.
- Back-ends:
- HTTP server fronts all Web Access.
- MySQL server provided data persistence.
- Front-ends:
- Front-end 1: A Spring MVC / JSP / JavaScript/ Glassfish / thin client secured by Spring Security.
- Front-end 2: An Eclipse RCP/SWT/JFace thick desktop client.
- Front-end 3: An Eclipse RAP/RWT Rich Internet Application (RIA) client.
- Front-end 4: An Eclipse e4 RCP/SWT/JFace desktop client.

Contractor - Software Development Engineer

IBM Research, December 2010 – July 2011

San Jose, CA

Sr. Developer in SDM team, involved in development and maintenance of the SDM Costing Tool.

- Implemented bug fixes to the Eclipse RCP product as directed by the Agile team.
- Enhanced the product with the ability to upload and download documentation files.

Consulting Software Development Engineer

Promptus Communications, April 2009 – December 2010

Portsmouth, RI

- Developed a SATCOM Simulator based on Asterisk for an Aeronautics Telephony provider.
- Implemented VOIP servers.
- Installed and configured SIP and POTS clients.

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Software Engineer / Contractor

Mercury Computer Systems, Inc. September 2008 - to - April 2009
Chelmsford, MA

- Assisted in the development of a desktop user interface by creating Eclipse plugins.
- Created Rich Client App (RCP / SWT / JFACE) dialog boxes.
- The Eclipse plugin is a GUI, designed to easily define embedded cluster domains and configure a distributed computer by selecting Linux OS boot images for each member of the cluster, and set common settings like network configuration parameters.
- Created an Eclipse plugin to persist data as XML via JAXB.
- Created an Eclipse plugin to view error logs.

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Software Engineer / Contractor

Curtiss-Wright Embedded Controls, September 2006 - to - November 2006
Leesburg, VA

- Assisted in the development of Eclipse plugins for an RCP desktop user interface.
- This prototype is a toolkit, designed to discover/view/monitor/record and view hardware and events. Event data was logged and stored into SQL Network and Embedded databases.
- Implemented using Java/Eclipse/JFACE/SWT as a Plug-in and later packaged into a standalone Rich Client App (RCP).

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Software Engineer / Contractor

Staples, August 2005 - to - November 2005
Framingham, MA

- Developed a System Migration Utility to transfer system data from previous to current releases of Symantec/ On Technology's CCM/iCommand product(s).
- The tool was developed using Java/Eclipse/Apache-Derby as the persistent local RDBMS.
- The utility transferred data via a 1:1 table/element mapping Sybase RDBMS.
- Design Tools: Apache DB tools, DdlUtils, Torque, and Turbine were used to generate the XML/XSD db schema to generate (ETL) of the data access into the Derby database for data modeling.
- Eclipse EMF Ecore database schema. Eclipse BIRT was used to display and report logs.

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Software Engineer / Contractor

i7Logic
December 2004 - to - January 2005
Portsmouth, RI

- Developed a Data Warehouse using MySQL as the SQL server, client DB tools in C++ for data field formatting, syntax checking, raw data importing and formatted data exporting into the SQL server.
- Created a Tab Delimited Text File Parser using lex & yacc in C/C++ to syntactically verify the data prior to database population. The parser performs data cleanup, data type primitives' detection, and data transformation from ASCII tab delimited files form that can then be utilized by SQL import tools.
- The parser informs the user of data anomalies, allowing the user to make correction. Optionally, the parser produces a XML database schema for use by third-party software, in this case, Torque, to generate SQL scripts and Java business model code.
- Created a native client db query tool in MSVC++ and ODBC.
- Developed a J2EE web application for database views and reporting based on the portal/portlet framework of JetSpeed which builds upon the following Open-Source technologies: Java, JSP, JDBC, Apache Torque, Turbine, and Velocity, and deployed within a Tomcat container.

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Software Development Engineer

On Technology/ Symantec, February 2000 - to - December 2003
Waltham, MA

- Maintained and enhanced Visual C++ Win32 and Borland C++ GUI's.
 - Developed On Command CCM syntax checking enhancements,cross platform,Windows, Solaris, HP, and Linux. Developed/ Maintained platform independent C/C++ static and dynamic component libraries.
 - Maintained and enhanced various command-line software distribution package development tools, developed using Visual C++ 6.0 while utilized Borland C++ Builder to develop front-end GUI(s) as a view to each command-line executable.
 - Developed a keyboard recorder to capture user keyboard actions and screen snapshots.
 - Implemented severity levels within error and log reporting.
 - Corrected defects as reported within a bug database.
 - Prototyped Java GUI's for the proposed next release of DevStudio using JBuilder, NetBeans, and Eclipse.
 - Developed parser libraries to verify the validity of system configuration data. (CCM v4.5 - v 5.6)
 - Developed internal command line and GUI tools to import parsed text data into a relational database.
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Software Development Contractor
Concordia Mfg, February 1995 - to - December 1999
Champlin Foundations, February 1995 - to - December 1999
Coventry, RI

- Transition IT Infrastructure from WANG-VS to PC-Network
- Installed CAT-5 Wiring, Patch-Panels, Hubs, Servers and Clients
- Installed MS-SQL Server
- Created COBOL data-dump programs.
- Created SQL DB Ingest scripts.
- Create User Interfaces and Reports.

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Network Administrator
Edwards & Angell, January 1990 - to - December 1994
Providence,RI

- Transition IT Infrastructure from WANG-VS to PC-Network
- Installed CAT-5 Wiring, Patch-Panels, Hubs, Servers and Clients
- Installed Sybase Server
- Administrated a Novell 4 Network.

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COBOL Programmer
Johnson & Johnson, February 1987 - to - June 1989
Randolph, MA

- Developed COBOL programs for Finance and Marketing

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COBOL Programmer
TRINA Mfg,Sept 1985 - to - January 1987
Fall River, MA

- Developed an Order Entry System

EDUCATION:

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University of Massachusetts Dartmouth
North Dartmouth, Massachusetts
•Bachelor of Science in Computer Information Science, September 1998
•Graduate Course: Wireless Sensor Networks, 2006

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Bristol Community College
Fall River,Massachusetts
•Associates in Computer Programming, June 1985
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