

RICHARD E. BREWSTER

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SUMMARY

Eighteen years experience in professional software development, specializing in server-side systems and databases. Languages include Java, Groovy, Ruby, SQL, and XML. Expertise in application architecture for networked and concurrent designs, including Java Enterprise. Proven track record of delivering applications to production.

PROFESSIONAL EXPERIENCE

RABBIT SOFTWARE, LLC, Charlottesville, VA, www.rabbitsoftware.com **October, 2010 - Present**
Self-employed owner of independent software consulting service focusing on server-side and database application development.

Systems Research and Applications Corporation (SRA), Charlottesville, VA **Feb. 2011 – Feb. 2012**
Contracting as Rabbit Software, LLC, supported development of Verification Process for Greenhouse Gas Reporting Program, a major initiative of the Environmental Protection Agency (EPA).

- Acted as technical architect and lead programmer on a development team of 5-8 members.
- Used Java, Groovy, XML, SQL, Spring Batch, Maven, Fit and other technologies.
- Assisted team to deliver Verification Tool (VT) software into production on schedule in October, 2011.
- Developed new technical designs to support Version 2 of the VT for future deployment.

Perrone Robotics, Inc., Charlottesville, VA **Dec. 2010 – Mar. 2011**
Contracting as Rabbit Software, LLC, supported an e-commerce initiative.

- Used Java, Maven, Ant, Spring MVC and other technologies.

WILLOWTREE APPS, INC., Charlottesville, VA, www.willowtreeapps.com **July-October, 2010**
Specializing in mobile strategy, applications design & development, and mobile optimization.
Senior Java Architect and Lead Java Developer

- Developed server-side Java technology to support mobile applications.
- Developed Java server support for the UVA iPhone app.

PERRIN QUARLES ASSOCIATES, Charlottesville, VA **2007-2010**
PQA specialized in environmental program development and implementation support for federal and state agencies, with a major focus on air quality. PQA is now a part of SRA International, Inc.

Java Architect and Lead Java Programmer **2007-2010**

- Assisted PQA with a major information system reengineering initiative for the United States Environmental Protection Agency (EPA), called the Emissions Inventory System (EIS), using Java technology and the Oracle 10G database.
- Recommended Java enterprise technology suitable for use with multiple PQA contract projects.
- Technologies adopted include: Java 6, Groovy, Struts 2, Hibernate 3, Spring 2, Maven 2, Hudson.
- Introduced continuous integration with automated testing to software development at PQA.
- Introduced an iterative and incremental development process managed by user stories.
- Entity-relational data modeling for the database in Oracle.
- The team delivered major phases of the project on schedule in October, 2008, March, 2009, and December, 2009, in addition to interim releases on a monthly or shorter schedule.

DARDEN SCHOOL FOUNDATION, University of Virginia, Charlottesville, VA
Graduate School of Business Education

2002-2007

Senior Java Developer and Applications Architect

2002-2007

- Worked with small teams of developers to deliver enterprise software products for license to graduate business schools including Columbia University, MIT Sloan, and Chicago GSB.
- Provided J2EE architecture plans, software design patterns, and coding best practices for the teams.
- Developed database access, EJB, and web tier for deployment in J2EE application servers and Microsoft SQLServer using IntelliJ IDEA, Ant and other open source tools, following Agile development methods.
- These teams succeeded in delivering four major applications (Admissions, Registrar, Career, and Alumni) into production for paying customers and maintaining these products over frequent upgrade releases.
- Developed a social networking application in Ruby-On-Rails.

EA.COM – KESMAI, Charlottesville, VA

1995-2001

Division of Electronic Arts, the world's largest maker of computer games.

Senior Software Engineer

2000-2001

- Developed Java and C++ components for an object-oriented framework that enables cross-language and cross-platform network communications for distributed game applications, including *The Sims Online*.
- Developed custom Java servlets and components for use in Java game applets to display advertising content, a major revenue source for EA.com.

Senior Programmer

1997-2000

- Created a new application, The Kesmai Matchmaking System (KMS), for matching up game players on the Internet, using innovative, cutting-edge technologies including custom Java servers, WebLogic Java Application Server, Oracle, and JDX, all never before used by Kesmai. KMS was successfully deployed to production on EA.com in 2000, helping to launch the EA.com gaming website.

Programmer

1995-1997

- Extended the ARIES libraries, a reusable framework in the C language for game server process management and inter-process communications. ARIES saved thousands of man-hours of game development cost through reuse. Running on HP-UX and Linux, games created with ARIES were deployed on AOL, Gamestorm, and EA.com, resulting in major revenue streams.
- Authored guidelines used throughout Kesmai for Peer Review of work products. These code reviews reduced software defects in the early phases of development, lowering production costs.
- Received Kesmai's Excalibur Award for outstanding contributions in 1996.

RICHARD E. BREWSTER

EDUCATION

Regents College, Albany, NY (Excelsior College)
Bachelor of Science Degree, Computer Information Systems, 1993

Marywood College, Scranton, PA (Marywood University)
Master of Social Work Degree, 1989

SUNY at Binghamton, NY (Binghamton University)
Bachelor of Arts Degree, Philosophy, 1982
Outstanding Academic Achievement Award

PROFESSIONAL CERTIFICATIONS

Sun Certified Enterprise Architect for J2EE, 2002
Sun Certified Java Developer for the Java 2 Platform, 2001
Learning Tree Certified Oracle 7 Professional Application Developer, 1999
Learning Tree Certified Oracle 7 Professional Database Administrator, 1999
Sun Certified Java 1.1 Programmer, 1998

ADDITIONAL TRAINING

Attended the ‘No Fluff, Just Stuff’ Java Software Symposium eight years in succession, most recently in April, 2010. <http://www.nofluffjuststuff.com/>

TECHNICAL SKILLS

Java versions:	1.1 through Java 6
Java APIs:	Sockets, RMI, Servlets, JSP, EJB, JDBC, JNDI, JMS, Applets, AWT/Swing
Java servers:	BEA WebLogic 8, IBM WebSphere, JRun 4, JBoss 4, Tomcat, Jetty
Open source frameworks:	Hibernate, Spring, Struts2, Quartz, Groovy, Grails, Restlet
Operating systems:	HP-UX, Solaris, Linux, Windows NT/2000/XP/Vista, Mac OSX
Database servers:	Microsoft SQLServer 2002, 2005; Oracle 7, 8i, 10g; MySQL 5
Methodologies:	Structured and OO design, components, design patterns, Agile
Build tools:	Maven 2, Ant, Gant
Quality tools:	Checkstyle, PMD, Findbugs, Cobertura, Sonar
CASE tools:	Visio, JVision, ERWin, Oracle Designer, Together/J
Test and debug:	JProbe, JTest!, JUnit, JMock, dbUnit, HttpUnit, Grinder, Selenium, JMeter, HP J2EEProbe, YourKit
Revision control:	Subversion, CVS, RCS, SCCS, MKS SI, Microsoft VSS
Libraries:	JDX Object-Relational Mapping
Editors and IDEs:	vi, Visual SlickEdit, IntelliJ IDEA 4 through 10