

David Wallace Croft

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16113 Longvista Drive, Dallas, Texas 75248

www.CroftSoft.com/people/david

david@CroftSoft.com

(214) 636-3790

Objective

- Principal Java Software Developer
- Android, Graphics, JBoss, JSF, Scientific, or Simulation Development
- Full-time employment in Baltimore, Dallas, Orlando, Phoenix, or Portland

Summary

- Two decades of industry experience in Software Development
- Specializing in the computer programming language Java since 1996
- Java game programming book author and software patent pending
- Public Trust Security Clearance / Minimum Background Investigation

Education

- 2005 May - Present: Part-time doctoral student Cognition and Neuroscience
University of Texas at Dallas, Richardson, Texas
Research focus: Computational Neuroscience in Java
- 2003 May - 2005 May: M.Sc. Applied Cognition and Neuroscience
University of Texas at Dallas, Richardson, Texas
Research focus: Neuroprosthetics simulation in Java
- 1993 Oct - 1995 Jun: M.Sc. Electrical Engineering
California Institute of Technology, Pasadena, California
Research focus: Computational Neuroscience, Neuromorphic VLSI
- 1986 Jul - 1990 Jun: B.Sc. Electrical Engineering
United States Air Force Academy, Colorado Springs, Colorado
Course focus: Computer Engineering, Digital Electronics, Neural Networks

Technical Skills

- Database: Hibernate, JDBC, Java Persistence API (JPA), Oracle, SQL
- Development: Ant, Eclipse, Hudson, JUnit, Logback, Maven, Nexus, Subversion, UML
- Graphics: COLLADA, Java 2D, Java 3D, Java OpenGL (JOGL), Xith3D
- Java Enterprise Edition (JEE): EJB, JMS, JSF, JSTL, MDB, Portlet, Servlet, Validation
- Java Standard Edition (JSE): Collections, Concurrent, JNLP, NIO, RMI, Socket, Swing
- Simulation: Computational Neuroscience, Continuous, Discrete Event, Game, Logistics
- Web: ADF, AJAX, CSS, Firebug, HTML, HTTP, JavaScript, Selenium, Trinidad, XHR
- Web Services (WS): JAXB, JAXP, JAX-WS, SOA, SOAP, StAX, XML, XSD, XSLT

Experience

- 2011 Dec - Present
Senior Consultant
CGI Federal, Dallas, TX
 - Requirements analysis, development, and unit testing of Web application
 - 508, Bean Validation, CSS, Java, JavaScript, JBoss, JSF, JSP, JSTL, JUnit
- 2011 Jun - 2011 Sep
Senior Software Developer
Keste LLC, Plano, TX
 - Credit card tokenization service integration for ADF-based website
 - ADF, JavaScript, JDeveloper, Servlet, SVN, UML, Web Services
- 2010 Apr - 2011 Jun
Senior Software Developer
COMFORCE Information Technologies, Dallas, TX
 - Southwest Airlines / Technology / Enterprise Business Services
 - Updated production enterprise services supporting gift card and travel voucher fulfillment
 - Ant, Bash, Eclipse, JAXB, JIRA, JMS, JUnit, Linux, Solaris, TWiki, Web Services, XSD
- 2007 Aug - 2010 Feb
Senior Systems Programmer / Analyst
Collins Consulting / Cole Engineering / Signature Consultants, Garland, TX
 - U.S. Army Future Combat Systems Logistics Data Management Service Team IBM
 - Installation of Oracle Portal and Oracle BI Discoverer portlets to provide a business intelligence dashboard to monitor supplier logistics performance with drill-down capability
 - Authored portlet for event-driven logistics simulator with state transition diagram editor applet
 - Authored portlet for database ETL including integration with Drools Guvnor Web-based GUI business rules editor for data cleansing operations
 - Implemented JAX-WS Web Services based on client WSDLs for SOA data exchange
 - Initiated, installed, authored, integrated, and documented continuous integration process
 - Authored software requirements, design, release, and user documentation including UML
 - Ant, Drools, Eclipse, EJB3, Guvnor, Hibernate, Hudson, Ivy, JAXB, JBoss, JBoss Portal, JDBC, JEE, JPA, JSP, JSR-286, Maven, MDB, Nexus Oracle, Portlet, StAX, TestNG
- 2007 Jan - 2007 Aug
Research Engineer
SET Corporation, Arlington, VA
 - Unmanned Aerial Vehicle (UAV) Advanced Ground Control Station
 - 3D OpenGL graphics, GUI, video, and peer network programming
 - UDP discovery and integrated non-blocking I/O HTTP server
 - Eclipse, HTTP, JAXB, JBoss, JMF, JOGL, NIO, Swing, UDP, XML

- 2004 May - 2006 Oct
Software Developer
Whoola Inc., Richardson, TX
 - Peer-to-Peer Virtual Reality Learning Environments research grant
 - Lead Developer and primary author of research status reports
 - Software architecture and network and graphics programming
 - Wrote one of the first 3D graphics COLLADA loaders for Java
 - Wrote a 3D Web browser with fly-through hyperlinks
 - COLLADA, Java 3D, JAXB, JNLP, JOGL, OpenGL, Xith, XSLT

- 2003 Jan - 2003 Dec
Lecturer I
University of Texas at Dallas, Richardson, TX
 - Taught Java game programming in Spring and Fall
 - Authored course content and book “Advanced Java Game Programming”

- 1999 Jul - 2000 Dec
Senior Software Architect (2000) / Senior Software Engineer (1999)
Isadra, Inc. and Vertical Net Inc., Palo Alto, CA
 - Refactored prototype B2B distributed e-commerce hub
 - Prototyped fuzzy logic product catalog and business process management server integration

- 1997 May - 1999 Jun
Sr Intelligent Systems Engineer / Technical Lead
Analytic Services Inc. (ANSER), Fairmont, WV
 - Design and development of Internet software agents and bots

- 1996 Sep - 1997 Mar
Lead Developer Game Engine
Adventure Online Gaming Inc., Pasadena, CA
 - Developed multi-player role-playing and strategic gaming software in Java

- 1995 Jun - 1996 Jul
Systems Engineer
Tanner Research Inc., Pasadena, CA
 - Developed software for U.S. Air Force SBIR Neural Network Silicon Compiler project
 - Design of CMOS VLSI Digital Neural Network Architecture circuitry and layout
 - Lab testing of analog/digital VLSI for speech recognition and neural networks

- 1990 Jun - 1993 Oct
Computer Systems Engineer / First Lieutenant
Data Management, B-2 CTF, 31st TES, U.S. Air Force, Edwards AFB, CA
 - VMS / Ultrix (DEC Unix) Systems Manager and Novell Working Group Manager
 - Developed data analysis and database software in Ada and Clipper programming languages