

# David Wallace Croft

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## Objective

- Principal TypeScript Full-Stack Web Application Developer
- Targeting Angular 4+, Electron, Ionic, and Node.js stack
- Far North Dallas, Houston Clear Lake Area, or remote telecommute

## Summary

- Software development and administration for high-traffic Web applications
- Java experience includes user group leader, course lecturer, and book author
- Patent inventor and researcher for academia, government, industry, and military
- Advocate for open source and open standards-based software development
- Public Trust Minimum Background Investigation (MBI) clearance

## Education

- 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 RDBMS, SQL
- Development: Ant, Eclipse, Git, JBDS, Jenkins, Maven, Nexus, SLF4J
- Graphics: COLLADA, Java 2D, Java 3D, Java OpenGL (JOGL), Xith3D
- Java Enterprise Edition (JEE): CDI, EJB, JMS, JSF, JSTL, MDB, Servlet, Validation
- Java Standard Edition (JSE): Collections, Concurrent, JNLP, NIO, RMI, Socket, Swing
- JavaScript: AJAX, AngularJS, Express, Grunt, jQuery UI, JSON, Node.js
- Lifecycle: Agile, Continuous Delivery, Scrum, SOA Governance, Unit Testing
- Middleware: Apache, JBoss BPMS/BRMS/Drools/EAP/OpsNet, OpenShift, Tomcat
- Simulation: Computational Neuroscience, Continuous, Discrete Event, Game, Logistics
- Test: EasyMock, HtmlUnit, Jasmine, JMeter, JUnit, Selenium, TestNG
- Web: Accessibility, Bootstrap, CSS, F12, HTML, SASS, TalkBack, VoiceOver, WCAG
- Web Services (WS): JAXB, JAXP, JAX-WS, REST, SOAP, StAX, XML, XSD, XSLT

# Experience

- 2015 Mar - Present  
Senior Java Developer  
EXB Solutions, Dallas, TX
  - Development, testing, and support of high-traffic government web applications
  - Java: CDI, EasyMock, Eclipse, HtmlUnit, JBoss, JSF, JUnit, Maven, PKI, Struts
  - JavaScript: AJAX, AngularJS, Express, Grunt, Jasmine, jQuery UI, JSON, Node.js
  - Web: Accessibility, Bootstrap, CSS, F12, SASS, TalkBack, VoiceOver, WCAG 2.0
- 2012 Jul - 2015 Mar  
Senior Consultant  
Red Hat, Dallas, TX
  - Java-based middleware consulting for multiple government and industry clients
  - Apache, JBoss BPMS/BRMS/Drools/EAP/EWS/OpsNet, Linux, OpenShift, Tomcat
  - Ant, Bash, Eclipse, Git, JBDS, Jenkins, Maven, Nexus, REST, VirtualBox, XSLT
- 2011 Dec - 2012 Jul  
Senior Consultant  
CGI Federal, Dallas, TX
  - Requirements analysis, development, and unit testing of Java Web application
  - 508, Bean Validation, CSS, JavaScript, JBoss, JSF, JSP, JSTL, JUnit, WS
- 2010 Apr - 2011 Jun  
Senior Software Developer  
COMFORCE Information Technologies, Dallas, TX
  - Updated Southwest Airlines 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
  - Ant, Drools, Eclipse, Guvnor, Hibernate, Hudson, Ivy, JBoss, Maven, Oracle, Nexus
  - Applet, EJB3, Hibernate, JAX-WS, JAXB, JDBC, JPA, JSP, MDB, Portlet, StAX, UML
- 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
  - 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
  - Wrote a 3D Web browser and early COLLADA loader for Java
  - COLLADA, Java 3D, JAXB, JNLP, JOGL, OpenGL, Xith, XSLT
- 2003 Jan - 2003 Dec  
Lecturer I  
University of Texas at Dallas, Richardson, TX
  - 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
  - Developed prototype fuzzy logic product catalog
  - Active in e-commerce XML standards organizations ebXML and BPMI
- 1997 May - 1999 Jun  
Senior Intelligent Systems Engineer / Technical Lead  
Analytic Services Inc. (ANSER), Fairmont, WV
  - Design and development of Internet software agents and bots
  - Training, coordination, and tasking of Java subcontractors
- 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
  - Developed data analysis and database software in Ada and Clipper languages
  - VMS / Ultrix (DEC Unix) Systems Manager and Novell Working Group Manager