

David Wallace Croft

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Objective

- Principal JavaScript / TypeScript Full-Stack Web Application Developer
- Long-term W-2 hourly in the Houston Clear Lake Area or 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

- Angular 5: CLI, Firebase, Flex-Layout, Material, RxJS, TypeScript, VS Code
- 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: HtmlUnit, Jasmine, JMeter, JUnit, Mockito, MockMvc, 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 Software Developer
EXB Solutions, Dallas, TX
 - Development, testing, and support of high-traffic government web applications
 - Angular 5: CLI, Firebase, Flex-Layout, Material, RxJS, TypeScript, VS Code
 - Java: CDI, JBoss, JSF, Maven, Mockito, MockMvc, Spring MVC, Struts, Thymeleaf
 - 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 testing of a 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
- 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