

# Terrance G. Davis

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## Skills

### Computer and Web Programming.

Specializes in Java development. Professional J2EE experience includes JSP, Servlets, JDBC, JMS, JMX (MBeans), JavaBeans, EJBs and Taglibs. Over a decade of professional computer and web programming experience. Applications design and project management experience.

**Languages Used Professionally:** java, php, c, c++, javascript, sql, c#, objective-c, perl, tcl, story server, tk, various versions of assembly, pl/java, pl/sql, pl/pgsql, postscript (hand written), asp

**Other Languages Used:** fortran, basic, pascal

**Platforms developed for:** java, .net, palm os, linux, mac os x, dos, windows, darwin

**Markup used:** xml, html, wap

**Design used:** uml

## Graphic Design Professional

Six years of professional graphic design experience. Including book, magazine and pamphlet layout. Press preparation. Computer layout tools including Photoshop, vector art tools, font creation, 3D modeling and page layout. Familiar with four color and spot color.

## Education and Certifications

### B.A., Mathematics with Computer Science Minor

(GPA 3.5)

University of Utah

Anticipated graduation 2012

Salt Lake City, Utah

### B.A., English

(GPA 3.4)

University of Utah

May 2007

Salt Lake City, Utah

### Sun Certified Java Programmer (SCJP)

Java 5.0

Demonstrates foundation proficiency in the fundamentals of the Java programming language.

## Work Experience

**2003-present Manager/Owner** Gene Davis Software, Woods Cross, Utah. Owner of software company. I use this company for doing contract work and selling software and software related products I've written. Two products sold are a book I authored, titled *Java Bindings for OpenGL (JOGL)*, and also a Java computer game I wrote, titled *Shogi for You and Me*. Both products can be found on [www.genedavissoftware.com](http://www.genedavissoftware.com).

I am currently involved in designing and writing a three tier Disease, Case and Utilization Management application for the Medical Insurance industry. The tiers include MySQL, JBoss and a JMX Swing based thick client. This application is currently in the its early stages.

*Java Bindings for OpenGL (JOGL)* is sold through all major bookstores, and though intended more for high school students and hobbyists, is used at some universities around the world. It covers the basics of 2D and 3D object creation, texturing, lighting and 3D movement for this Sun and SGI supported OpenGL API for Java. The book's ISBN is 142080362X.

*Shogi for You and Me* is a 100% Java game based on the game Shogi (Japanese Chess) that is enjoyed by millions of people from around the world. I have several resellers for this game, including Amazon, Whole Sale Chess, The Japan Shop and Kagi.

**2007-present Senior Software Developer** Ice Edge Business Solutions, Salt Lake City, Utah. Senior member of development team for the US division of Ice Edge Business Solutions. Responsible for leading team in the development of Java based visualization utilities for modular wall and building industries. Technologies used include C++, Java, Swing, JNI, SQL and UML. Extensive mathematics was required for this position, including use of trigonometry, geometry and algebra, and methods including Straight Skeleton and Linear Cutting Stock Problem.

**2006 Senior Web Applications Developer** University of Utah, Salt Lake City, Utah. Part of a team organized by the head of AOCE that worked on the first release of the RUPReady site found at ruready.net. This is an educational and instruction tool written as a Java based web application. Tomcat was used for the server. MySQL was used for the database. I was responsible for assisting in the creation, documentation and testing of all parts of the web application with the exception of a parser used for determining the correctness of open ended questions. Languages I used in this position have included Java, JavaScript, CSS, SQL. I used UML for documentation of the code. J2EE technologies used included Servlets, JavaBeans, JSP, JDBC and Taglibs

**2005-2006 Senior Software Developer** Hydro Engineering, Salt Lake City, Utah. Part of a team of three engineers re-writing a green screen ERP written in System Z as a GUI three tier Java App. The majority of the work was Java based. The Database for this project was PostgreSQL 8.x. The Sever was a custom server written from the ground up for this application. The GUI and server were both pure Java 1.5. The IDE was eclipse. I worked regularly with the GUI, Sever and Database.

Languages I used in this position included Java, SQL, JavaScript, C/C++, PL/Java, PL/PgSQL, PL/SQL. Other technologies included XML-RPC and JDBC. J2EE technologies used included Servlets, JavaBeans, JSP and JDBC.

**2004-2005 Web Leads Manager/Web Developer** Century Software, Inc., Salt Lake, Utah. Manager of Web Leads Generation. My responsibilities at Century Software included management of content creation for Century Software's template driven website. I managed all outsourcing for marketing activities whether advertising, printed materials or content creation for our website or newsletters. Also, as a member of Century Software's Executive Committee, I was responsible for creation of corporate policy and direction.

The technologies I used frequently as part of my job were PHP for website design, SQL for MySQL and MS SQL for managing leads generation and tracking, C++ and MS Visual Studio for creation and updating of lead generation tools such as data aggregation from our databases of leads and mass mailings to potential customers that have approved receiving marketing materials.

**2000-2004 Senior Software Developer** emWare, Inc., Cottonwood, Utah. Worked in Core Engineering, Applications Engineering and finally Production Engineering, taking the lead on design and implementation for various projects. Much of the work I did for emWare was in Java (J2EE), C/C++ and C#.

Projects that I've worked on include using Java to create a server with redundant failover handling a custom protocol, writing an Apache 2.x module for Linux, several Palm OS apps, a C# app, proving technologies such as JMS and EJB servers. I've debugged or updated Perl, ASP, C++ and C apps.

Technologies I worked with at emWare include custom apache builds, tomcat maintenance, conduits and networking of Palm apps using IR and low level serial communication, xml, ejb (mostly stateless session, though

some stateful session and container managed persistent entity), servlet, emNet (a protocol), osgi (similar to j2me), jms, jdbc, java based networking and io, cryptography, web server set up and maintenance, uml based design and documentation, swing, xml handlers (sax), smtp, palm os and embedded planet's red box (ppc micro chip series).

All of the projects that I did for emWare in some way related to networking devices and users. One notable project that I worked on was a device to web page or WAP based cell phone interface, used for connecting to a vending machine and its database to allow a client to access its stock, current temperature or to vend product. It was similar to the old IBM ad where a lady vends a soda from a cell phone. It was a very popular demo with our sales people and later was turned into a product that has been marketed successfully.

I also wrote a server that featured redundant failover to give the company the ability to boast enterprise level connectivity for networking devices to a central server.

I wrote a Palm OS app which was managed indirectly, though securely, via serial connection by a remote web user over the internet. It was part of a demo for our Enterprise Messaging Gateway (EMG). It showed that our technology could be used by doctors to remotely prescribe medication or safely and securely dispense medication to patients at remote sites such as their homes.

I also rewrote one of their device networking products to work with IPv6 on win32 boxes. In this proof-of-concept / demo they showed that their product was quickly convertible to the new networking standard, and could be used to save management and energy costs on large office buildings. The demo was showcased by a Japanese customer in China during May of 2002 and is still part of an on going display at their Japanese headquarters.

**1999-2000 Team Lead/Senior Applications Engineer** Ysource, Inc., Park City, Utah. Senior Applications Engineer leading a team of five engineers interfacing with our team of core engineers and graphic design department. I was also responsible for improving and maintenance of our flagship product, a web site for teens and their high schools. In this pursuit, I did database design, server side code using Weblogic and StoryServer. Technologies of note that I worked with included Java, C/C++, EJB, SQL, Servlets, JSP, TCL/StoryServer, Applets and JavaScript. J2EE technologies used included Servlets, JavaBeans, JSP, JDBC and EJBs.

**1998-1999 Web Applications Developer/Graphic Designer** Gibbs Smith Publisher, Layton, Utah. Worked in the textbook division. For our web site I did back-end programming in Perl and C/C++, the front-end layout/design in html and javascript, as well as, designing division advertising, newspapers and textbooks.

**1997-1998 Web Developer/Graphic Designer** Whipple/White Typography, Inc., Salt Lake City, Utah. Responsible for the company web site, ftp site and dial in bbs. I did scanning, trapping, color correction and created ads ranging from billboards to newspapers. I also was responsible for our advertisements and many of our clients' advertisements. I maintained three Macs, four PCs and a network of printers and imagers.

**1995-1997 Web Developer/Graphic Designer** EFI Electronics, Inc, West Valley City, Utah. Worked in EFI's marketing department. My responsibilities included creating the first EFI company website. I was also responsible for the design of computer generated models of future products. I designed many marketing pieces including brochures, corporate IDs, fonts, UL approved labels and internationally distributed advertisements in 4-color, spot color and B&W.

**1994-1995 Graphic Designer/Key Op** AlphAGraphics, Inc, Salt Lake City, Utah. Hired because of my prior management experience. My responsibilities included corporate ID creation, typesetting, and the creation of marketing pieces for our customers and our shop.

**1992-1993 Manager/Key Op** Aztec Copy, Inc, Salt Lake City, Utah. Managed and assisted several shop managers for this company. My responsibilities included Management, Customer Relations and Advertising.

## Volunteer Activities

Currently actively contribute to various open source projects.

Currently serve as a financial auditor for my church.

Summer part-time work at a homeless shelter answering phones and performing other service in Honolulu, Hawaii.

Served two year ecclesiastic mission in the state of Hawaii. Improved leadership, communication, public speaking and money management skills.

## Miscellaneous Credits and Accomplishments

Have run and maintained my own tomcat servers from which I have hosted several domains

Wrote the book, *Learning Java Bindings for OpenGL (JOGL)* under the penname, Gene Davis

Published article in *Java World*, "Hello JOGL: Introducing Java Bindings for OpenGL", Feb 2005

Manager for several small open source/free projects including Jangband ([jangband.org](http://jangband.org))

Free-lance writing of fiction, including several published pieces

Owned and edited a small circulation literary magazine for seven years