

Terrance G. Davis

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Summary

Java expert with 20+ years of experience developing Java SE, Java EE, and JavaFX applications. Familiar with Agile and SMART development practices. Experience managing teams, architecting solutions, and guiding software development, maintenance, and testing at every stage of the software development life cycle. Recent development includes use of Java, Spring, MySQL, Swagger, REST, HTML5, JavaScript, React, and Ethereum blockchain.

Work Experience

2018-present Senior Java Developer RainFocus, Lehi, Utah.

Full-stack developer creating and maintaining conference related software for events attended by many thousands. Java development of REST APIs using Swagger and Spring with full database integrations. Integration with partners' systems. Java, SQL, Spring, MySQL, Swagger, REST, Struts, JSP, JavaScript, CSS, HTML5, and React.

2018-present Java Software Architect James Davis Solutions, Woods Cross, Utah.

Creating full-stack, decentralized, blockchain solutions. Exposing Ethereum blockchain resources through Rest APIs for web client access. Technologies used includes Spring Boot, Java, OpenAPI (REST), MySQL, SQL, RxJava, Solidity, Geth, React, Bootstrap, JavaScript, CSS, and HTML5.

2011-2018 Senior Staff Engineer Motorola Solutions, Salt Lake City, Utah.

Assisted in managing, mentoring, and reviewing development efforts of interns and junior team members. Designed and created clients and servers based off customer specifications. Clearly communicated specification needs to customers. Trained internal support in StateLink products. Wrote internal documentation. Practiced JUnit based test driven development and Agile management processes.

Developed StateLink public safety products used for sheriff's offices and police departments' communication with state and national law enforcement applications. Technologies used include Java, JEE, JSON, XML, XSL, HTML, JavaScript, JQuery, JUnit, Tomcat, and UML.

All development of the StateLink product was test driven, because the developers could not legally test against production systems. Often entire products were released to clients based off specs provided by the client with only minor adjustments made after the end users provide logs and feedback on the product's use in their production environment.

2006, 2009-2011 Lead Web Developer / System Administrator University of Utah, Salt Lake City, Utah.

Institute for Clean and Secure Energy (ICSE), University of Utah.

Managed junior developers and outsourcing of work to other divisions at the university. Lead web applications developer and system administrator handling customization, creation, and security management for ICSE's in house web domains and web applications. Maintained eight servers including two dedicated database servers (Oracle and PostgreSQL) and six servers hosting various web applications including Dspace, ContentDM,

Awstats, OpenCMS, Joomla, Dspace, JSPWiki, and Rapla.

Division of Academic Outreach and Continuing Education (AOCE), University of Utah.

Maintained a mathematics tutoring web app, RUReady for the AOCE. RUReady was a multitier web app using Java, MySQL, JavaScript, CSS, SQL. I used UML for documentation of the code. JEE technologies used included Servlets, JavaBeans, JSP, JDBC and Taglibs.

2007-2009 Senior Software Developer Ice Edge Business Solutions, Salt Lake City, Utah.

Senior member of development team for US division. Hired to give technical advice to head of the US division. Also, managed office activities and managed frequent onsite visits to Canada. Responsible for leading 10+ member team consisting of developers and QA when the division head was traveling. Our division developed Java based visualization utilities for modular wall and building industries. Technologies used include C++, Java, Swing, JNI, SQL and UML. Extensively used trigonometry, geometry and algebra, and algorithms including Straight Skeleton and Linear Cutting Stock Problem at this position.

2005-2006 Senior Software Developer Hydro Engineering, Salt Lake City, Utah.

Part of a team of three engineers rewriting a green screen ERP written in System Z as a GUI three-tier networked app with a Java desktop client. The majority of the work was Java based. The database used for this project was PostgreSQL. The Sever was a custom server written from the ground up for this application. Languages used in this position included Java, SQL, JavaScript, C, C++, PL/Java, PL/PgSQL, PL/SQL. Technologies included XML-RPC, JDBC, Servlets, JavaBeans, and JSP.

2004-2005 Executive Committee Member / Web Leads Manager Century Software, Utah.

As a member of Century Software's Executive Committee, responsibilities included creation of corporate policy and direction. Managed contract workers and outsourcing of web leads generation. Created content for Century Software's template driven website, managed outsourcing for marketing activities including advertising, printed materials, and content creation for website and newsletters. Marketing and website maintenance tasks required frequent use of C++, PHP, SQL for MySQL and MS SQL.

2000-2004 Senior Software Developer emWare, Inc., Cottonwood, Utah.

Worked on Core, Applications, and Production Engineering teams, taking the lead on design and implementation for various projects including software creation for remote monitoring and control of medical devices, software development for facilities management, vending machines control software, HVAC systems software, and sprinkler systems software. Technologies developed with included Java (J2EE), SQL, JSP, ASP, Perl, C, C++, C#. Various prototypes created used, JMS, EJB, Palm OS, OSGI, UML, SMTP, JDBC.

1999-2000 Team Lead / Senior Applications Engineer Ysource, Inc., Park City, Utah.

Senior Applications Engineer leading a team of five engineers. My team improved and maintained the front end of our flagship product, a web site for teens and their high schools. My team coordinated with other software development teams and our graphic design department. In this pursuit, I designed database schemas, 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. Website creation using Perl, C, C++, HTML and JavaScript. Designed textbook division's advertising. Also, designed and edited newspapers and textbooks for educational use in schools around the USA.

1997-1998 Web Developer / Graphic Designer Whipple/White Typography, Inc., Salt Lake

City, Utah. Maintained the company web site, ftp site and dial in bbs. Manually edited faulty PostScript language files to allow printing. Other responsibilities included 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.

Used JavaScript and HTML to create our first corporate website. Designed computer generated models of future products for marketing materials. Created marketing pieces including brochures, corporate IDs, fonts, UL approved labels and internationally distributed advertisements in 4-color, spot color and B&W.

Professional Publications

Java and Mac OS X (Developer Reference)

Learning Java Bindings for OpenGL (JOGL)

"Hello JOGL: Introducing Java Bindings for OpenGL", *Java World*

Ghostwrote chapters in various computer programming books for Wiley Publishing

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

Platforms and Cloud: docker, google app engine, java, .net, android os, palm os, unix, linux,bsd, mac os x, dos, windows, darwin

Web Client: rest, angular, jquery, bootstrap, json, xml, xsl, xslt, html/html5, css, typescript, javascript

Testing: junit

Design: uml

Databases Maintained Professionally: MySQL, PostgreSQL, Derby (Java DB), HSQLDB, Oracle, Sybase, MS SQL Server, mSQL, 4th Dimension, C-Tree

Education and Certifications

B.A., English

(GPA 3.4)

University of Utah

May 2007

Salt Lake City, Utah

Sun Certified Java Programmer (SCJP)

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

January 2007

3 ½ Year Emphasis in Computer Science

First student to graduate from Chatham High School with an officially recognized emphasis in Computer Science.

May 1988

Chatham, NY