Terry Davis

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Summary

Director of Engineering, Director of IT, System Architect, UI/UX architect, team leader, senior developer with many years development experience as architect, designer, Javascript, lisp, ruby, Java/C++/C# programmer. Familiar with MS SQL Server/MySQL/Oracle node.js, mongo/ NoSQL and graph databases Allegrograph and fuseki/Jena. Familiarity with multiple engineering best practice methodologies, expert in UML modeling, and RUP and Agile. Very strong in leading edge Web technologies including JavaScript, JQuery, AJAX, JSON/JSONP, MVC including Ember, Angular on AWS and the cloud. Effective scrum leader and mentor.

Skill Sets

|  |  |  |  |
| --- | --- | --- | --- |
| JavaScript | 10 | Ember/Angular/SPA | 8 |
| HTML5/CSS3 | 9 | Agile | 8 |
| UI/UX requirements capture | 9 | React | 5 |
| Team Lead | 8 | Data modeling | 9 |
| AWS | 7 | Google cloud | 5 |

Overview

I have been a leader in software engineering my whole life. I have led teams from 2 to 50 in real-time and web developments for preschool education, college level assessment

I work best as a team leader and mentor. I have been effective as architect, technical lead or project manager.

I am an expert in semantic machine learning and the semantic web and have worked with artificial intelligence natural language systems. I’m expert in lisp. I am knowledgeable in OWL, RDF, RDFS and graph databases and have build inference engines using SPaRQL.

I am also a certified developer in HTML/CSS/JavaScript, JQuery, and mongo, Ember, Angular variants and React/Redux.

I am above all a leader and pride myself on my people skills and my ability to complete projects and inspire my teams to excel.

I have a zeal for usability and the user experience. I am competent as an Agile scrum leader. I am expert in requirements capture a certified project manager and certified scrum-master.

Highlights

**DavisSoft   
Mar 2015-Present   
DavisSoft Consultancy**

Cloud and internet technologies consultancy *http://www.davissoft.com*

I operate an open consultancy through Davissoft.com. My passions are the semantic web, data modeling, artificial intelligence, OWL and SPaRQL.

Ember, Angular, Bootstrap, bower, grunt, gulp, node, npm, karma; JSON, XML; HTML/CSS/SASS; Windows, Linux/XWindow; JavaScript, AJAX, lisp, ruby, python, perl, PHP, Java; Allegrograph, MySQL Server, MS SQL Server, Sybase, Oracle; Lean, Agile, UML, RUP; RQL, SPaRQL,OWL.

AgileBTS

Feb 2018-Apr 2018

Director of Software Engineering / US / Contract

I lead groups of project managers, designers, and engineers to work on CRP and ERP toolsets and integrations with ZoHo CRP.

I lead and directed teams, set direction, recommend solutions, and mentored staff in all phases of Agile development including SCRUM master mentoring.

I supervised 3 engineers, and also an offshore Java integration development team of 6.

Prototyped portal migration subscription platform on AWS, using javascript, react, node, node express, mongo, Java, maven, JUnit.

Age of Learning  
June 2015-March 2016

Director of Engineering / Activities

Director of Engineering / Tools

I lead groups of producers, animators, designers, and engineers to work on early learning and elementary education production tools.

I lead and directed teams, set direction, recommend solutions, and mentored staff in all phases of Agile development including SCRUM master mentoring.

I supervised 14 engineers, including 2 offshore teams of 6 each. We developed single page Angular derived web applications and Unity apps on android and iPhone platforms.

We used Angular 1.4, karma, mocha and npm, and Unity 4. Microsoft Visual Studio as part of the toolsets.

McGraw-Hill Higher Education

2012-2015

Engineer/Software – UI Lead

Web Design & Usability Lead for design and front-end development of customer facing and internal web applications using JavaScript/JQuery tools and data visualization solutions using 3D javascript libraries.

Developed cutting education assessment engine web applications with responsive web UI/UX solutions with J2EE backend using JQuery, Ajax, JavaScript, HTML5/CSS3 components.

Java, JavaScript, HTML, XML, wire framing and scripting. Led architecture of Java SPRING API team and supervised SDK for web applications in an agile environment using TDD and BDD where appropriate.

Prototyped advanced widgets for courseware, graph database / visualization components for ontology navigation, content management and search requiring graph database, OWL, RDF, ontology design.

Developed standard cross platform mobile development framework for Android, iOS and Windows mobile.

Led team to develop Angular and Ember MVC single page applications to manage content metadata for MHHE products with responsive web UI/UX solutions ReSTful J2EE backend, using Angular, Ember, JQuery, JavaScript, HTML5/CSS3 components in an Enterprise Agile Scrum / Jira environment.

Worked to build an ontology of knowledge using machine learning and artificial intelligence using standard web tools, Proficient in Allegrograph, OWL, SPaRQL. Led team to to build inference engines for taxonomy and ontology context generation.

Trained / certified in mongo / noSQL development and administration, trained in CouchDB noSQL, and node.js.

Mentored staff in web technologies, Javascript programming, JQuery, mongodb, node.js.

GE Capital  
GE Fleet Leasing Web  
2011 -2012  
Senior Web Developer, JavaScript/JQuery

Web Design & Usability Lead for design & front-end development of internal and external facing web applications using progressive enhancement, accessibility using JavaScript/JQuery tools and data visualization solutions, progressive enhancement, accessibility, JavaScript/JQuery tools and data visualization solutions.

Developed cutting edge UI/UX solutions with J2EE backend using JQuery, Ajax, JavaScript, HTML5/CSS3 components.

Developed state of the art JavaScript components integrating diverse platforms for large fleet leasing and management applications.

Used expert knowledge of web technologies, including Java, JavaScript, HTML, XML, wire-framing and scripting. Provided leadership in researching and tracking new web technologies, developing service applications and interfaces consistent with business rules.

Wells Fargo

2011

UI/UX Architect, BA, Team Leader

Architected and developed cutting edge UI/UX solutions on Microsoft VS2010 ASP, using JQuery, Ajax, JavaScript, HTML5/CSS3 components.

Acted as the highest-level UI/UX expert on the development and implementation of highly complex, large-scale internet and intranet application integrating diverse platforms, crossing multiple business lines.

Used expert knowledge of web technologies, including C++, Java, Java Script, HTML, CGI, XML, ASP, database modeling tools and database interactions. Provided leadership in researching and tracking new web technologies, developing service applications, and analyzing business requirements as they pertain to web-based systems. Provided direction and guidance to less experienced staff.

Open Source Contributions

MAID

*2015-present*

*Ruby Mac utility*

*‘*Be lazy. Let Maid clean up after you, based on rules you define. Think of it as "Hazel for hackers”.'

<http://rubygems.org/gems/maid>

In progress additions for GUI front end to write rules, manage Maid.

Notable Past Contributions

Firefox

*2005-present*

*Open Source Development Team*

Most notably, re-architecting extension/ plugin update processing, began shipping in v 3.0, coding C++, leadership, code evaluation. Continues.

**Apache httpd**

*1999-present*

*Open Source Development Team*

Member of development team on *open* Linux, OpenBSD, and FreeBSD systems. Development of documentation and coding in C, C++, configurations, documentation. Continues in limited ways.

Gnome

*2004 -2007*

*Open Source Development Team*

Various contributions, debugging, C coding, documentation, testing, focus on communications. Continues in limited ways.

XFree86 / XOrg

*1995-2006*

*Open Source Development Team*

Member of development team on *open source* X Window for Linux, OpenBSD, and FreeBSD systems. Development of documentation and coding in C, C++.

Education

React/Redux

Angular.js 1.4/1.5/2.0

Ember 1.x, 2.x

Certified mongodb for Developers, mongodb for DBA’s, mongodb for node.js

HTML/JavaScript/JQuery W3 Schools Certification 2010

University of Minnesota Computer Science / Astrophysics

Transitioning to .NET

XML Schemas for eBusiness

COM/DCOM Using ATL

IEC 61508 Safety Related Systems

Microsoft Windows NT Advanced Server

Microsoft SQL Server

Object Oriented Analysis and Design

Project Management for Technical Professionals

ATT System V Internals, Streams, Device Drivers

IBM Communications Protocols, System Network Architecture

Books / Articles

Author of Modern MVC Architectures: React, Angular, and Ember , (O’Reilly and Assoc, in progress)

Coauthor of *The DOS 6 Handbook*, PC World Books, IDG Books, 1993

Coauthor of *The Fully Powered PC*, PC World Books, Simon and Schuster, 1985

Organizations

**Mensa,, IEEE, ACM, and a few other memberships over time**

Other Notable Earlier Work

**Honeywell Aerospace and Defense** — directed munitions navigation components

**Anderson-Crane** — director of IT

**MTS Systems Corporation** — Aircraft Test Systems   
  
**Detector Electronics** — real-time control systems in the fire and gas detection industry.

**Medtronic** — pacemaker programmer design, OOA, OOP, AI intelligent assistant

**Northwest Airlines/Delta** — eTicket technical leader

**Motorola** — MNDOT real-time traffic control system t

**3M Corporation Information Technologies** —Customer Service Management System Team

**Computing Devices** — MIL-STD 1780 to Solaris FTP connectivity for AWACS enhancement

**Target** —Communications Server Project

**United Health Care Corporation** — Provider Link

**Honeywell Systems/Sensors Development Center** — DAIS (EPRI), OO (w Grady Booch)

**IBM Corporation** — APPN/APPC Development

**ABB/BBC** —LMS5000, VersaCom Protocol, LMS4000, BECOS 32 Project