Jeff Saenz
Software Engineer (Front-End Web)
714-457-2595 - jsaenzsweng@gmail.com

Software Engineer (Front-End Web) with a strong background in Javascript, Software Engineering, Unix/Linux, web application development, modern tooling, JS frameworks, SQL, Agile development methodologies and Nodejs.

EDUCATION : B.S. in Computer Science (CSU Fullerton)

RELOCATION: willing to relocate

SUMMARY OF SKILLS :

- Javascript (ES6) , HTML5 and CSS3
- Webpack, NPM and Babel
- Backbone and ReactJS/Redux
- API integration via RESTful APIs
- Linux/Unix command line and shell programming
- Agile development
- Unit testing (Jasmine) and TDD
- Server side development using Node.js/Express and PHP
- SASS/LESS, jQuery, Foundation, Bootstrap
- Responsive design, mobile first and cross-browser development
- Version control with Git/Github
- SQL, MongoDB, MySQL and MS-SQL
- Enterprise application system monitoring for Unix and Windows

WORK EXPERIENCE :

Cognitive Medical Systems, Inc. (2014-2016)
Software Engineer (Front-End Web)

Project: Health Care Management Web Application

Worked as a Front End Developer on a health care management web application for the Veterans Administration (VA) using Javascript, Backbone, RESTful services, jQuery, CSS3/SASS, Node.js, Bootstrap and HTML5. Primary duties consisted of developing the client side business logic and custom UI SDK for the application, developing unit tests in Jasmine, executing local development DevOps tasks using grunt and Jenkins and implementing accessibility compliance standards (508 compliance). The application was designed as a Single Page Application integrated with a RESTful API web service providing queries and updates to medical record data on the backend running Node.js. All front end code was developed using Chrome/Chrome Dev Tools and IE.

Project: Contract Management System

Worked on a web based contract management system using ReactJS/Redux, Javascript, ES6/Babel and Webpack. Primary duties consisted of the design, development and testing of the front end user interface in React and ES6. The Redux-Thunk middleware was used with the Redux store to retrieve contract data via a RESTful API implemented on the backend in Node.js and MongoDB. All development was done on MacOS and the source code was managed via GIT.

DirecTV (2013-2014)
Software Engineer (Front-End Web)

Worked as a Front End Developer on a mobile first TV web application for DirecTV. Development responsibilities included : styling the application using CSS3/Less/Stylus, animating user interactions with CSS3 3D animations, designing a responsive interface using elements from the Bootstrap and Foundation UI libraries and developing a custom UI framework with jQuery, Dust templates and Javascript. Additionally, on the backend, performed maintenance of the web service application stack running Node.js, nginx and Redis.

Freelance Developer (2012-2013)
Web application developer.

Working as an independent contractor developing responsive web sites hosted in Amazon EC2. The sites were developed using Javascript, Node/Express, Bootstrap, CSS3, HTML5 and jQuery.

Jet Propulsion Laboratory (2001-2012)
Senior Software Engineer (IT, Web)

Project: Enterprise Monitoring

Working as a lead developer, designed and deployed an enterprise monitoring solution for the Jet Propulsion Laboratory (JPL) IT services group using NetIQ AppManager, Tivoli, Nagios, and SNMP. The monitored environment consisted of over 500 physical/virtual servers and 100 devices. Primary responsibilities included interfacing with operations and engineering to support production application monitoring deployments, design and development of the NetIQ/ Nagios monitoring infrastructure, technical support, custom monitor scripting (Perl, Python, VBScript, and Shell), custom automation development, MS-SQL administration/programming, hardware monitoring for CIM/Dell servers, and custom monitoring with SNMP.

Applications used and supported include:

- MS-SQL, Oracle, MySQL
- Active Directory, LDAP, Kerberos
- Exchange, Sharepoint, IIS, Apache
- VMWare Virtual Center, Docushare, Remedy, TSM, AFS File
- SAN Hardware, VOIP infrastructure, SDSC Cloud Storage
- OS monitoring for Windows/Unix (Disk, Services, Performance, syslog/ eventlog)

Project: Enterprise Infrastructure Web Development

Custom web dashboard development for internal monitoring data using Apache, PHP, HTML::Mason, CSS, MySQL, Javascript, AJAX, RRDTOOL and XML. The dashboards provided a web front end to monitoring data and operational processes.

Freelance Web Development (2000-2001)
Web application developer

TrikMedia.com - Worked as a contractor for TrikMedia.com developing custom web applications using Linux, Apache, PHP, Perl, and Mysql. TrikMedia.com is a web and active content development agency specializing in custom dynamic websites.

ICANN.org - Developed global membership application and back office system using CGI, mod_perl, Perl, PHP, HTML, Apache/Stronghold web server, MySQL and Linux.

Orientation.com - Developed custom news feed scripts for news portal using Perl, PHP, Linux, MIME e-mail processing, and advanced regular expression matching.

FoodbrokersUSA.com - Developed broker membership system using PHP, Red Hat, and the Postgres object-oriented database.

Jet Propulsion Laboratory (1996-1999)
Software Engineer (Web, C++)

Project: Knowledge Management

Designed and developed a reusable web based documentation management application framework. The application allowed flight projects to manage and share documentation on-line. The system was developed on Solaris in Perl, SQL,

HTML, Java and JavaScript. Over 20 projects utilized the system with approximately 1000 end users.

Project: Docushare Document Management Application

Provided systems integration software support for the deployment of the commercial documentation management system Docushare. The application was a replacement for a custom application developed to manage flight project documentation.

Project: Distributed Object Development using CORBA/C++

Assisted in the design and served as a key developer of a second generation "shared semantic network", or Shared Net, utilized in a five year experiment to test the use of advanced, experimental information systems to support "small force" combat. Shared Net serves as a three-tiered distributed object oriented system based on the CORBA 2.x ORB (Orbix & OrbixWeb), CORBA Services (OrbixNames,Orbix Events), Object Design's ObjectStore ODBMS, C++, Java, HTML, Solaris/UNIX and Windows NT. Utilized CORBA Design Patterns (Factory, Evictor, and Independent Objects). Deployed the server in C++ on Solaris 2.5.1 while providing connectivity to Shared Net to all clients compliant with CORBA 2.x and HTTP.

The Aerospace Corporation (1990-1996)
Software Engineer (Real-time simulation)

Project: Software Analysis/Verification
Performed detailed independent review and simulation testing of the command and telemetry subsystem for the advanced Milstar satellite software.

Project: Manufacturing Modeling in Windows - C++
Designed and developed an object oriented visual manufacturing simulation used to identify bottlenecks in the construction of launch vehicles at Cape Canaveral, Florida.

Project: Real-Time Simulation Development in C
Developed a real-time simulation of the Uplink Command Workstation for testing of the Milstar flight code in C. The tool provided test engineers with command, control and telemetry display for the spacecraft processor.

End