

David Lopez

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Summary

Senior software engineer with extensive experience in UX (user experience) and UI (user interface) design and full stack web development.

Skills

Frontend: HTML5, CSS (Less and Sass), JavaScript (jQuery, ExtJS)

Backend: Java (J2EE/Spring Boot), Python (Django), Go, SQL, XML, JSON

Databases: Oracle, MySQL, PostgreSQL, Cassandra, SQLite

Web Application servers/proxies: Apache, HAProxy, Nginx, Tomcat, Glassfish, Weblogic

OS: Linux (Red Hat and Debian variants), Mac OS X, Windows

Scripting: Bash and utils (sed, awk, grep), Python, Ruby

Version control systems: Git, Mercurial, Subversion, CVS

Professional Experience

Verizon (Temple Terrace, FL) - IT Division

Principal Member Technical Staff (September 1997 - March 2019)

Highlights

- Senior Engineer for geographically distributed teams: Duties include project planning, scheduling, and using various management tools to control scope, schedule, and costs.
- Developed patented web frameworks currently being utilized by Verizon IT.
- Recognized by my peers as a subject matter expert in web technologies i.e. HTML5, CSS3, Javascript, jQuery, Java, SQL, and Unix.
- System Designer: Duties included planning, architectural design, development and implementation of various systems. Worked directly with business owners to fulfill business and technical requirements.

Systems (some examples)

- **RFDS** - Radio Frequency Design System
RFDS is a new system used by radio frequency engineers for cell tower design, construction, deployment, and maintenance.

System built using Java/Spring Boot, HTML5, CSS3, JavaScript, and jQuery.

Duties:

- System Architect from system conception to production deployment
- Worked with subject matter experts to gather requirements.
- Designed/Implemented several micro-services
- Designed/Implemented various web based screens
- *Unified Tasking Engine* - Enterprise solution for managing tickets of manual tasks from assignment to completion.

System built using Oracle SOA Suite, and Java.

Duties:

- System Lead: managed distributed team to maintain a large Oracle Service Oriented Architecture (SOA) Suite solution
- Re-engineered system to micro-service based architecture and replaced the Oracle SOA solution resulting in substantial cost savings.
- *Unified User Interface (UUI)* - Enterprise web portal
UUI consolidated several web applications into a single UI solution.
System built with Java, HTML5, CSS3, JavaScript, and jQuery.

Duties:

- Team Lead: managed distributed team of engineers.
- Worked with subject matter experts to gather, validate, and engineer a technical solution.
- Planned, designed, developed, and implemented web UI.
- *Provisioning Controller* - Enterprise business process manager
System built using Java, HTML5, CSS3, and JavaScript.

Team Lead

Duties:

- Managed distributed team of engineers.
- Maintained, re-engineered, and modernized a complex web user interface.
- Broadband Assignment Activation Inventory System (BAAIS) - SONET provisioning
BAAIS system re-built using Java, HTML, CSS, and JavaScript.
Graphical User Interface Team Lead

Duties:

- Managed team of UI engineers.

- Responsible for user interface design and implementation for a web based application.
- Enhanced the BAAIS to perform SONET provisioning.
- *BAAIS* - DSL provisioning
System built using Java, and Swing.
Module Lead
Duties:
 - Enhanced Assignment Activation Inventory System (AAIS) to perform DSL provisioning.
 - Responsible for system and schema design, data migration, and back-end functionality supporting graphical user interface enhancements.
- AAIS - Wireline provisioning
System built using Java, and Swing.
Module Lead
Duties:
 - Responsible for schema design, data migration of back-end functionality, and design and implementation of UI.

Origin Technologies (Tampa, FL) - IT Consulting

Senior Consultant (September 1994 - September 1997)

- Contract system engineer assigned to work at GTE.
- Worked on systems for GTE as a contractor until hired by GTE.
- GTE was later acquired by Verizon.

IBM (Rochester, MN) - Midrange systems division

Software Engineer (June 1990 - September 1994)

- Implemented user interface for the OS/400 C++ debugger.

Patents

8,452,861 – Broadcast Design For Provisioning Reconfigurable Optical Add/Drop Multiplexer Circuits (*May 28, 2013*)

9,910,651 – System for developing, testing, deploying, and managing applications in real-time (*March 6, 2018*)

10,275,115 – Multifunction icon for user feedback including context information (April 30, 2019)

Education

University of Texas (El Paso, TX)

Graduate Coursework (January 1989 - June 1990)

University of Texas (El Paso, TX)

B.S. in Computer Science (August 1984 - December 1988)