# 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](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%252Fnetahtml%252FPTO%252Fsearch-bool.html&r=1&f=G&l=50&co1=AND&d=PTXT&s1=8452861.PN.&OS=PN/8452861&RS=PN/8452861)** – Broadcast Design For Provisioning Reconfigurable Optical Add/Drop Multiplexer Circuits (*May 28, 2013*)  
**[9,910,651](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=%252Fnetahtml%252FPTO%252Fsrchnum.htm&r=1&f=G&l=50&s1=9910651.PN.&OS=PN/9910651&RS=PN/9910651)** – System for developing, testing, deploying, and managing applications in real-time (*March 6, 2018*)  
**[10,275,115](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/netahtml/PTO/srchnum.htm&r=1&f=G&l=50&s1=10,275,115.PN.&OS=PN/10,275,115&RS=PN/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)