



# David Lopez

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## Profile

Senior Software Engineer with 24 years experience with graphical user interfaces, user experience design, and web technologies. Full stack skills ranging from database design to front end engineering.

## Experience

**PRINCIPAL MEMBER TECHNICAL STAFF, VERIZON; TEMPLE TERRACE, FL – 1997-PRESENT**

### *Highlights*

- Senior Engineer for internationally distributed teams: Duties include project planning, scheduling, and using various management tools to control risk and costs.
- Developed patented web frameworks currently in use at Verizon.
- Recognized by my peers as a subject matter expert in web technologies such as HTML5, CSS3, Javascript, jQuery, Java, SQL, and Unix.
- System Designer: Duties included planning, designing architecture, developing, and implementing numerous systems. Focusing on user centered content that meet business and technical requirements. Team Lead for internationally distributed teams.

### *Systems (some examples)*

- RFDS – Radio Frequency Design

[Java/Spring Boot, HTML5, CSS3, JavaScript, jQuery]

System Architect: Responsible for planning, design, development, and implementation of a web based RFDS. Radio Frequency Engineers use RFDS to reduce the time required to implement cell tower antenna design(s).

- Unified Tasking Engine - Enterprise solution for human tasking

[Oracle SOA Suite, Java]

System Lead: managed an internationally distributed team to maintain a large Oracle Service Oriented Architecture (SOA) Suite solution used to automate ticket assignments of manual processes.

- Unified User Interface - Enterprise provisioning portal

[Java, HTML5, CSS3, JavaScript]

Team Lead: managed an internationally distributed team of engineers to plan, design, develop, and implement a web portal. Worked with user group to gather, validate, and translate requirements into a technical solution.

- Provisioning Controller - Enterprise orchestration

[Java, HTML5, CSS3, JavaScript]

Team Lead: managed an internationally distributed team of engineers to maintain, re-engineer, and modernize a complex web user interface.

- BAAIS Video - SONET provisioning

[Java, HTML, CSS, JavaScript]

Graphical User Interface Team Lead: Enhanced BAAIS to perform SONET provisioning. Responsible for user interface design and implementation for a interactive web based application.

- BAAIS - DSL provisioning

[Java, Swing]

Module Lead: Enhanced Assignment Activation Inventory System (AAIS) system to perform DSL provisioning. Responsible for system and schema design, data migration, and back-end functionality supporting graphical user interface enhancements.

- AAIS - Wireline provisioning

[Java, Swing]

Module Lead: responsible for schema design, data migration, and back-end functionality supporting a graphical user interface.

**SENIOR CONSULTANT, ORIGIN TECHNOLOGIES; TAMPA, FL – 1994-1997**

Worked on systems for GTE (later acquired by Verizon) as a contractor until hired by GTE.

**SOFTWARE ENGINEER, IBM; ROCHESTER, MN – 1990-1994**

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

## Skills

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

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

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

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

**Databases:** Oracle, MySQL, PostgreSQL, Cassandra, SQLite

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

**Version control systems:** Git, Mercurial, Subversion, CVS

## Patents

8,452,861 B2 – Broadcast Design For Provisioning Reconfigurable Optical Add/Drop Multiplexer Circuits (May 28, 2013)

9,910,651 B2 – System for developing, testing, deploying, and managing applications in real-time (March 6, 2018)

## Education

University of Texas (El Paso, TX) – Graduate Coursework, 1990

University of Texas (El Paso, TX) – B. S. in Computer Science, 1988