

# Aldemar Villegas

(57) 312 758 49 92  
alvilleg@gmail.com

## Employment

<b>Software Engineer</b>	<b>Grupo Bit</b>	<b>Apr 2015–Current</b>
<ul style="list-style-type: none"><li>• Design and build web application to explore OLAP cube in spatial context.</li><li>• Design and build APIs for geocoding, and other geo spatial functions.</li></ul>		
<b>Software Engineer</b>	<b>Presto Sports</b>	<b>Jun 2010 – Apr 2015</b>
<ul style="list-style-type: none"><li>• Lead developer for web application for stats entry in college sport events (NCAA)</li><li>• Build encoder/decoder to the most common format used to exchange stats between colleges (NCAA)</li></ul>		
<b>Teacher</b>	<b>Universidad del Valle</b>	<b>Jan 2008 – Dec 2009</b>
<ul style="list-style-type: none"><li>• Courses: Algorithms Analysis and Design, Discrete Mathematics, Introduction to Programming.</li></ul>		
<b>Lead Developer</b>	<b>Startup project</b>	<b>Apr 2007 – Dec 2009</b>
<ul style="list-style-type: none"><li>• Design and build web application and APIs to solve vehicle routing problems.</li></ul>		
<b>Software Engineer</b>	<b>Open International Systems</b>	<b>Mar 2005 – Apr 2007</b>
<ul style="list-style-type: none"><li>• Develop solutions for billing and operations support in communications and utilities companies.</li></ul>		

## Education

<b>Cali, Colombia</b>	<b>Universidad del valle</b>	<b>Aug 2001 – Oct 2006</b>
<ul style="list-style-type: none"><li>• BSc, Computer Engineering. PGA: 4.21/5.00. 2001–2006</li></ul>		

## Technical Experience

### Projects

- **Vehicle Routing App** (2007–2009). Design and build a solver for VRPTW in real environments.
- **Geocoder** (2015). Design and build APIs to validate and geolocate addresses.
- **OLAP Viewer** (2017). Web based application to navigate OLAP cubes.

### Additional Experience and Awards

- **Competitive programming coach** Taught algorithm analysis, data structures and problem solving techniques.
- **Scholarships** Four scholarships while studying the BSc for good academic performance.

### Courses

<b>London, UK</b>	<b>British Study Centres</b>	<b>Dec 2010–Mar 2011</b>
<ul style="list-style-type: none"><li>• English course, 200 hours.</li></ul>		

### Languages and Technologies

- Java; C++; SQL; JavaScript; PL/SQL
- Git; ETL; Spring framework, Postgres, Postgis, MongoDB, AngularJS.
- Data mining, Business Intelligence, Data warehouse, OLAP, GIS, Graph theory, Artificial intelligence.

### English tests

- MET (Apr 2011), MET; Listening: 59(B2); Reading: 56(B2); Final Score: 115.