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Cali, Valle del Cauca

# Aldemar Villegas

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## Employment

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**Software Engineer** **Grupo Bit** **Apr 2015–Current**

- Design and build web based application to explore OLAP cube in spatial context.
- Design and build APIs for geocoding.

**Software Engineer** **Presto Sports** **Jun 2010**

- Build web based application for stats entry in college sport events (NCAA)
- Build encoder/decoder to the most common format used to exchange stats between colleges (NCAA)

**Teacher** **Universidad del Valle** **Jan 2008 – Dec 2009**

- Courses: Algorithms Analysis and Design, Discrete Mathematics, Introduction to Programming.

**Lead Developer** **Startup project** **Apr 2007 – Dec 2009**

- Design and build web application and APIs to solve vehicle routing problems.

**Software Engineer** **Open International Systems** **Mar 2005 – Apr 2007**

- Develop solutions for billing and operations support in communications and utilities companies.

## Education

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**Cali, Colombia** **Universidad del valle** **Aug 2001 – Oct 2006**

- BSc, Computer Engineering. PGA: 4.21/5.00. 2001–2006

## Technical Experience

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### 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

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

### Courses

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**London, UK** **British Study Centres** **Dec 2010–Mar 2011**

- English course, 200 hours.

### Languages and Technologies

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- 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

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