Aldemar Villegas

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Employment

Software Engineer	Grupo Bit	Apr 2015–Current

- Design and build web application to explore OLAP cubes in spatial context.
- Design and build APIs for geocoding, route optimization and other geo spatial functions.
- Technologies: Java, Spring Framework, JavaScript, AngularJS, Postgres, MongoDB, GIS, OLAP.

Software Engineer	Presto Sports	Jun 2010 – Apr 2015

- Lead developer for web application for stats entry in college sport events (NCAA)
- Build encoder/decoder to the most common format used to exchange stats between colleges (NCAA)
- Technologies: Java, Spring Framework, GWT, JavaScript, AngularJS, MySql, GIT

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.
- Technologies: Java, Spring Framework, C++, JavaScript, AngularJS, Postgres, MongoDB, GIS, Graph theory, Artificial intelligence.

Software Engineer	Open International Systems	Mar 2005 – Apr 2007

- Develop solutions for billing and operations support in communications and utilities companies.
- Technologies: Java, Oracle, PL/SQL

Education

Cali, Colombia	Universidad del valle	Aug 2001 – Oct 2006

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

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** Algorithm analysis, data structures and problem solving techniques.
- **Scholarships** Four scholarships while studying the BSc for good academic performance.

Courses

London, UK	British Study Centres	Dec 2010–Mar 2011

- English course, 200 hours.
- Data mining, Business Intelligence, Data warehouse.

English tests

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