

# CARLOS G. GAVIDIA

109 Camden Road ◊ London NW1 9HZ ◊ United Kingdom

+44 · 7502 · 591407 ◊ c.gavidia@cs.ucl.ac.uk

## RESEARCH INTERESTS

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Software engineering, software optimization, software testing, image processing, swarm intelligence.

## EDUCATION

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### University College London

*Present*

Ph. D. in Computer Science

Co-first Supervisors: Senior Lecturer Earl T. Barr and Professor Mark Harman

Project: Visa Europe Impact Studentship

### Pontificia Universidad Catolica del Peru

*December 2013*

M.S. in Informatics

Supervisor: Professor Cesar Beltran

Dissertation: Medical image segmentation using Ant Colony Optimization algorithms

### Pontificia Universidad Catolica del Peru

*December 2010*

Certificate in Software Engineering

Ranked second of the class.

### Universidad Nacional de Ingenieria

*December 2007*

B.S. in Systems Engineering

Capstone Project: OpenUp as process framework for a software factory

Ranked on the top 20 % of the class

## PROFESSIONAL EXPERIENCE

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### Verizon

October 2013 - July 2015

*Senior Software Engineer*

*Lima, Peru*

- Ported modules from ETMS—a legacy Java Swing application—to a Rich Internet Application built with ExtJS, in order to improve user experience and increase their productivity. ETMS was used by about 5000 Technicians worldwide to support enterprise customers, and almost 2700 of there are already using ETMSWOW to support their work.
- Implemented resources for the ETMS Restful API using JAX-RS.

### Tata Consultancy Services

July 2012 - September 2013

*Technical Leader*

*Lima, Peru*

- Redesigned the Mi Claro application—a legacy Spring web application—in order to decouple the presentation layer from the business logic layer. The Mi Claro application allowed America Movil mobile clients to manage their accounts through desktop and mobile browsers, and it supported about a million and a half users.
- Lead the Engineering Team, conformed by 15 developers on Peru and 10 developers on Colombia.
- Defined the technology stack and code conventions.

- Implemented mobile-enabled presentation components —using Java Portlets and the Dojo Framework— and business components, using JAX-WS Web Services and the Spring Framework

**Avances Tecnologicos**

July 2011 - June 2012

*Lead Software Engineer*

*Lima, Peru*

- Designed a reporting web application for Unique, a local cosmetics company, in order to support its sales management process. The application made use of Jasper Reports for report generation on multiple formats.
- Lead the Web Development team of the company, conformed by 5 Software Engineers.
- Implemented the Blackberry version of the Movistar En Linea application for Movistar —a local telecommunication company— that allowed users to manage their accounts through their smartphones.
- Implemented a Software Development process for the team, based on agile practices. The process included automated testing, code conventions and code reviews.

**Avantica Technologies**

December 2010 - June 2011

*Software Engineer*

*Lima, Peru*

- Built features for the Administration module of GRM, a Web Application that supported Google's sales process.
- Implemented presentation components using Google APIs like GWT, Closure, Guice and Guava. Also, automated testing was implemented using Selenium, JUnit and JSUnit.

**Avances Tecnologicos**

October 2008 - November 2010

*Software Engineer*

*Lima, Peru*

- Ported the Data Online application —a legacy Servlet-based application— to a Spring MVC architecture, to improve code readability and increase maintainability.
- Built the Equipment Delivery application for Telefonica del Peru, using Java Server Faces as Web Framework. The application allowed Telefonica del Peru the management of their equipment providers.

**TEACHING EXPERIENCE**

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**Universidad Nacional de Ingenieria**

March 2014 - Present

*Lecturer*

*Lima, Peru*

- ST-221: Algorithms and Data Structures, Semester 2014-I.
- ST-202: Structured Programming Languages, Semester 2014-II.

**TECHNICAL SKILLS**

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<b>Programming Languages</b>	Java, C, JavaScript
<b>Web Development</b>	HTML, CSS, AJAX, JavaScript Toolkits (Dojo, ExtJS)
<b>Web Services</b>	SOAP, WSDL, XSD, REST, JSON
<b>Java EE</b>	Spring Framework, MyBatis, JAX-RS, JAX-WS, JSF, Servlets
<b>Databases</b>	SQL, PL/SQL, Oracle Database
<b>Tools</b>	Eclipse, Aptana Studio, Notepad++

**MISCELLANEOUS**

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<b>Languages:</b>	Spanish (native), English (advanced), French (intermediate)
<b>Citizenship</b>	Peru

**REFEREES**

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Available upon request.