

# David Robles

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## CONTACT

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## SUMMARY

Software Engineer with a strong focus on tackling engineering challenges, writing quality software and with strong grasp of software architecture, advanced software engineering principles and design patterns.

I recently completed an MSc and PhD in Computer Science from the University of Essex, where I conducted research focused on Reinforcement Learning, Simulation-Based Search, Evolutionary Algorithms and Games. During this time I was also a Teaching Assistant in several courses in programming and web application development.

I'm currently a Software Engineer at dotloop, where I work primarily as a Java backend developer responsible for designing and implementing new features and RESTful APIs. In my free time, I love programming in Ruby, Rails, Python, and more recently I've been diving into functional programming.

## EDUCATION

**PhD Computer Science**  
University of Essex  
Colchester, United Kingdom  
2009 - 2013

Thesis: "Simulation-Based Search and Learning in Games"

**MSc Computer Science**  
University of Essex  
Colchester, United Kingdom  
2007 - 2008

Software engineering theme, passed with distinction.

**BSc Information Systems Engineering**  
Institute of Technology and Higher Education of Monterrey  
Hermosillo, Mexico  
2001 - 2006

## EXPERIENCE

**Software Engineer**  
DotLoop  
San Francisco, CA  
January 2013 - Present

- Java backend developer.
- Designed and implemented new features and RESTful APIs.
- Implemented a Tagging System, Photo Upload System, Contacts Importer, Clause Manager, Waitlist System, etc.
- Technologies used: Java 7, Spring MVC, JSP, MySQL, JavaScript, Amazon Web Services, JUnit, Mockito, Jenkins, IntelliJ.

**Teaching Assistant**

University of Essex  
Colchester, United Kingdom  
October 2009 - March 2012

Preparation, marking and teaching of classes and laboratories for the following undergraduate and postgraduate courses:

CE705 - Programming in Java, Autumn 2011.  
CE320 - Large Scale Software Scale Systems and Extreme Programming, Autumn 2011.  
CE218 - Computer Game Programming, Spring 2011.  
CE152 - Object-Oriented Programming, Spring 2011.  
CE705 - Programming in Java, Autumn 2010.  
CE212 - Web Application Programming, Spring 2010.  
CE112 - Procedural and Object-Oriented Programming, Spring 2010.  
CE705 - Programming in Java, Autumn 2009.

**Systems Administrator**

Camisa Development Group  
Hermosillo, Mexico  
March 2006 - May 2007

Network Administrator, Windows Server 2003, Active Directory, VPN, CRM Software, Sage SalesLogix.

**SKILLS**

**Programming languages:** Java, Ruby, Python, PHP, C.  
**Web Development:** Ruby on Rails, Spring MVC, JSP/Servlets, JavaScript, CSS.  
**Testing:** JUnit, RSpec, Mockito.  
**Databases:** MySQL, PostgreSQL.  
**Cloud:** Amazon EC2/S3, Heroku.  
**Version Control:** Git, SVN.  
**OS:** Unix/Linux, Mac OS X.

**AWARDS**

Scholarship for MSc and PhD Computer Science degrees from the National Council of Science and Technology of Mexico.

**CERTIFICATIONS**

Cisco Certified Network Associate (CCNA), February 2006.  
Microsoft Certified Systems Administrator (MCSA), May 2007.