David Robles

CONTACT
INFORMATION

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SUMMARY

Software Engineer and former Ph.D. student. As a software developer I believe in object oriented design and agile methodologies, and consistently employ test-driven development. I also have some interest in games programming.

EDUCATION

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

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

Researcher in the Games Intelligence Group (GIG) at the University of Essex, under the supervision of Professor Simon M. Lucas. My research focused in Reinforcement Learning, Simulation-Based Search, Evolutionary Algorithms and Games.

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

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

I have worked as a back end Java engineer, developing the new version of dotloop.com. I have been responsible for designing and implementing new features and RESTful APIs in Spring MVC, that not only support the website but also the iOS mobile app.

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.

IT Systems Administrator
Camisa Development Group
Hermosillo, Mexico
March 2006 - May 2007

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

Skills Summary

Artificial Intelligence: Reinforcement Learning, Simulation-Based Search, Evolutionary Algorithms, Neural Networks, Game Theory.
Programming languages: Java, Ruby, Python, PHP, C.
Web Development: Ruby on Rails, PHP, JSP/Servlets, Spring MVC, HTML5, JavaScript, CSS/Sass, JQuery.
Testing: JUnit, RSpec, Test::Unit.
Databases: MySQL, PostgreSQL.
Cloud: Amazon EC2/S3, Heroku.
Tools: Git, Ant, Maven.
Scientific computing: Numpy, Matplotlib.
OS: Unix/Linux, Mac OS X, Windows.

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.