

Adrian **Montero**

DATA ENGINEER · SOFTWARE ENGINEER

Abu Dhabi, United Arab Emirates

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Summary

Adrian Montero has an extensive background interacting with complex and dynamic systems from low level systems programming all the way to the web. He is deft both on designing and interfacing with relational databases and NoSQL. He has developed applications over MySQL, Mongo, and SQLite. His programming skills extend into several languages such as Python, PHP, Java, C#, C++, C, R and Stata. He is well versed on Web 2.0 technologies such as AJAX and JQuery, NodeJS, React and Meteor. He has ample experience with different web stacks including J2EE (including EJB) and LAMP. He is well versed in REST and Web Services. On the data analytics side he has been involved with projects using tools such as Hadoop, Mahout, Lucene, Solr as well as with data visualizations output using D3 and ggplot. On top of his development mastery he has ample experience with Linux DevOps including deployments Amazon EC2 and S3.

Experience

University of Southern California

Los Angeles, California

SENIOR SOFTWARE ENGINEER - SPECIAL PROJECT MANAGER

Oct. 2015 - Present

- Lead several survey data collection efforts including surveys on Facebook, Amazon Mechanical Turk, GFK and YouGov.
- Program and manage the Drupal websites for the Center of Economics and Social Research.
- Provide guidance and direction through the complete life-cycle of data collection efforts.
- Install, audit and optimize the infrastructure of both physical and AWS servers.
- Attend conferences such as APPAM, GSA and PAA to disseminate the Gateway to Global Aging Data.

University of Southern California

Los Angeles, California

SENIOR SOFTWARE ENGINEER

Mar. 2014 - Sep. 2015

- Designed, implemented, and managed the Gateway to Global Aging Data, a data harmonization project on ageing survey across the world.
- Worked as a survey developer for the Understanding America Study online panel and developing Nubis survey software widgets.
- Created a C extension for PHP to read and write the Stata statistical file format from PHP.
- Developed the Understanding America Study data dissemination page using Drupal.

RAND Corporation

Santa Monica, California

RESEARCH PROGRAMMER

Sep. 2011 - Mar. 2014

- Programmed surveys using an in-house PHP platform as well as extending the Call Center module and creating a mass emailing extension.
- Programmed a C# mass e-mailer that allowed to sign and encrypt thousand of messages with a Department of Defense Common Access Card.
- Worked as a technical lead for the data collection of the Yucatan Social Policy intervention and aided on the data cleaning.
- Implemented a machine learning application using Hadoop, Mahout and Solr to analyze the relationship between US SES Army positions and US Army Jobs.
- Implemented a clustering analysis to identify relationships between key members in a state to help train the Army Special Operations Command.
- Developed a web tool using ASP.NET to interact with a SAS BI web service to analyze motor injury prevention for the CDC.

WebEnabled

Denver, Colorado

PHP DEVELOPER

Jun. 2011 - Sep. 2011

- Developed a proprietary content management system using open Mongo, Sphinx and PHP.
- Developed bash scripts for web application cloning and self configuration.
- Created an application on NodeJS which served a fast cache for providing Geo-localization services.

Freelance

Monterrey, Mexico

PHP DEVELOPER

Mar. 2011 - May. 2011

- Developed an online PHP product catalog for a hardware vendor in Mexico city.

Tu Mundo

DRUPAL DEVELOPER

Austin, Texas

Dec. 2010 - Mar. 2011

- Developed a website on Drupal with a custom theme.
- Created custom Drupal modules to interact with the public through Twitter and Facebook during a live video broadcast.

Scorpio Auto-glass

WEB DESIGNER

Dallas, Texas

Jan. 2009 - Mar. 2009

- Designed a custom website with an online catalogue and price quoting for automobile windshield replacement.

Grupo Empresarial EISEI

JAVA SENIOR DEVELOPER

Monterrey, Mexico

Feb. 2007 - Oct. 2007

- Worked in a multi-disciplinary team that was tasked to convert a bank application from ASP to Java/SAP WebDynPro.
- Implemented the web application that handled the credit rating for consumer and commercial banking.
- Researched the SAP WebDynPro platform and disseminate the proper way to use it to other team members.

Globix Corporation

JAVA DEVELOPER

Monterrey, Mexico

Nov. 2006 - Jan. 2007

- Collaborated with an international team in the development of an internal asset portal for direct marketing and collateral marketing within SAP

TuSite.com

C APPLICATION DEVELOPER

Monterrey, Mexico

Aug. 2006 - Oct. 2006

- Upgraded a pricing and inventory system that interacted through RPC with Ingram Micro.
- Developed a native winapi application that communicated between clients using a PHP XML-RPC server.

PCEL

SYSTEM ADMINISTRATOR/PROGRAMMER

Monterrey, Mexico

Mar. 2004 - Oct. 2004

- Maintenance and system administration of the store's web servers and the servers being hosted at the E1 connection.
- Provided technical support to the company's systems.
- Created a reverse auction website for the hardware suppliers.
- Wrote a DNS query application in C.
- Implemented a multi-threaded B2B interface with Ingram Micro and Synnex to synchronize prices.

Skills

Programming C/C++, Python, Java, C#, NodeJS, Bash

Web PHP, Drupal, Meteor, ReactJS, HTML5, CSS, XML, D3, JQuery

Statistical R, Stata

Monitoring Tools Nagios, Tripwire, Wireshark

Database MySQL, MongoDB, SQLite

Languages English, Spanish, French

Education

Universidad Tecmilenio

Monterrey, Mexico

M.B.A. IN FINANCE

2009-2011

- Dissertation titled "El efecto en los precios de las acciones de la BMW a consecuencia de un cambio de calificación durante la crisis hipotecaria"

Universidad Tecmilenio

Monterrey, Mexico

B.S. IN SOFTWARE ENGINEERING

2006-2009

- Linux Kernel programmer for the Robotics Club
- Six Sigma Yellow Belt Course

Awards

Impact Award – Improving RAND's Agility, Provided emergency on-site support for the

2013 installation, administration and fielding of a survey for sexual abuse for the US Air force Basic Military Training at Lackland Air force Base

RAND Corporation