



# GUILLERMO CABRERA

Backend Software Developer

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## EXPERIENCE

IBM Corp.	EMERGING TECHNOLOGIES SOFTWARE DEVELOPER
Jan 2014-Present	Design and implementation of prototyping work on big data analytics, and cloud (Softlayer) infrastructure and applications. Early adoption and evangelization of technologies such as Docker, Jupyter notebooks, Apache Spark, Apache Mesos within organization. Exploration of data processing via Lambda architecture using Apache Kafka. Demos at Spark Summit 2014 (San Francisco) and Strata + Hadoop 2014 (Barcelona).
Workday	SOFTWARE ENGINEER - PERFORMANCE
Jul 2012-Jul 2013	Identified performance bottlenecks at JVM level on platform applications (ex. Payroll, Financials). Designed and executed benchmarks against our 500k employee tenant. Explored initial work to stand up, tune and make use of a Riak (Dynamo model) cluster as data store for Workday system. Joined pre IPO on NYSE.
Fusion Taurina	DIRECTOR TECHNOLOGY AND CO-FOUNDER
Aug 2011-Jul 2012	Designed and developed collaborative Smartphone applications (iOS and Android) for sports. "MiToroBravo" app with 15,000 unique users and 92,000+ sessions in iOS alone during first year of launch. Explored Phoneygap as a way to deploy to multiple platforms as well as MANETs via bluetooth.
IBM Corp.	EXTREME BLUE TECHNICAL INTERN
May 2010-Aug 2010	Presented and discussed project with Sam Palmisano (IBM Chairman, former President and CEO). Extended functionality of Big Data application based on Apache Pig and Hadoop. Extracted relevant information from Twitter dataset, classified it and visualized it on a map for user to interact.
HP Labs	RESEARCH INTERN
May 2009-Aug 2009	Analyzed relevance of eye gaze data from web documents to further improve recommendation systems. Extended web browser that would use the DOM elements coordinates to correlate with eye gaze data and create index for read (as opposed to skimmed) paragraphs. The data was then fed to existing profiler.

## SKILLS

LINUX (UBUNTU) - JAVA - OBJECTIVE C - SCALA - SQL - BASH - XML - JSON  
ECLIPSE - INTELLIJ - DOCKER - GIT - AGILE METHODOLOGIES  
ORACLE 10G - MYSQL - BERKELEY DB - JDBC  
SPARK - MESOS - HADOOP - MARATHON - JUPYTER - KAFKA  
ENGLISH (NATIVE) - SPANISH (NATIVE) - RUSSIAN (B2, INTERMEDIATE)

## EDUCATION

MSCS	THE UNIVERSITY OF TEXAS AT AUSTIN
Dec 2010	Focus on information storage and retrieval, machine learning and database systems. Relevant courses include: Semisupervised Learning for Computational Linguistics; Semantic Web, Ontologies and the Cloud.
BSCS	THE UNIVERSITY OF TEXAS - PAN AMERICAN
Dec 2006	Outstanding Student Award for Academic and Leadership Achievement in 2006 (4 out of 3000 in College of Science and Engineering). President of the ACM Student Chapter. Minor in Business Administration.
ABROAD	SAINT PETERSBURG STATE UNIVERSITY (RUSSIAN FEDERATION) UNIVERSIDAD DE SALAMANCA (SPAIN)

## EXTRA

- \* Chair for 1st annual CS Student Research Day conference at UT - Pan American.
  - \* 1 of 75 students in North America selected for 2010 Google Grad CS Forum.
- \* Patent filed in USA (Nov 2015) - Attachment of cloud services to big data services.
  - \* Enjoy traveling, world music, latin dancing, yoga, running and most recently Jiu Jitsu.