

CRISTIAN GARAY

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EDUCATION

University of California, Berkeley	Berkeley, USA
<i>Master of Information Management and Systems - Data Science & Engineering</i>	May, 2017
Pontificia Universidad Catolica de Chile	Santiago, Chile
<i>B. Sc. in Industrial Engineering, Combined Major in Computer Science</i>	2002 - 2008
Pontificia Universidad Catolica de Chile	Santiago, Chile
<i>Certificate in Social Psychology</i>	2007 - 2008

PROJECTS

- Insult Mining in Social Media Comments: Exploring machine learning algorithms (Naïve Bayes, Logistic Regression) and innovative feature engineering to detect insults in social media comments through Twitter API using Python & scikit-learn.
- Former member of the Mobile Developers of Berkeley Club: Development of Invenire, a geolocation-based music discovery app for iOS.
- Data Visualization projects for the Information Visualization and Presentation course using Tableau, D3.js and Highcharts. <http://people.ischool.berkeley.edu/~cgaray/MusicMeter/>

WORK EXPERIENCE

University of California, Berkeley	Berkeley, CA
<i>Graduate Research Assistant (Prof. Zachary Pardos)</i>	Aug 2016 - Present
– Develop a Python/C++ version of the Bayesian Knowledge Tracing algorithm to model student’s mastery of knowledge being tutored.	
Center for the Collaborative Classroom (Education)	Alameda, CA
<i>Data Analytics Intern</i>	Jun – Jul 2016
– Designed and implemented the data warehouse platform of the company using Amazon Web Services solutions, including Amazon Redshift, S3 and EC2.	
– Developed ETL processes in Python to clean and load daily information from various systems (Salesforce, Excel files).	
– Established and implemented new set of KPI reports in Tableau using the newly created data warehouse.	
Banco Penta (Banking)	Santiago, Chile
<i>Project Manager</i>	2014 – Aug 2015
– Designed and managed the implementation of products (NDF, Swaps) in leading financial and risk management platforms. The project involved almost all the areas of the bank from front to back-end operations including valuation and accounting models. Expected annual revenues for the product USD\$ 100M.	
– Directed a team in the definition of the entire process to support the product “International Brokerage”.	
RiskAmerica S.A. (Financial Services)	Santiago, Chile
<i>Software Engineer</i>	2009 – 2013
– Developed and managed “RiskPortfolio”, a suite of financial analysis web-applications oriented for the management of investment portfolios that had a great success with more than 100 daily visits, using PHP, HTML, CSS, Javascript and MS SQL databases.	
– Developed internal systems using RESTful web services required to support the daily activity of the web platform.	

REVELANT COURSEWORK

- Distributed Computing Applications and Infrastructure.
- Information Visualization and Presentation.
- Deconstructing Data Science.
- Applied Natural Language Processing.
- Introduction to Statistical Computing.
- Machine learning in Education.

SKILLS + OTHERS

Programming Languages: Python, HTML, CSS, JavaScript, PHP, Java, C++, SQL, iOS development with Swift 2.0.
Data Analisis and Visualization tools: scikit-learn, NLTK, Pandas, Tableau, D3.js, Highcharts.
Languages: Spanish (native), English (fluent).
H-1B1 visa eligible.