

• Sellenne Berthely •

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EDUCATION

University of California, Berkeley – Master of Information Management and Systems. 2016 - 2018
Focus Areas: Data Analysis, Crypto-currencies and Blockchain financial solutions.

Universidad La Salle, Mexico City – B. S. in Computer Systems Engineering. 1999 - 2003
Relevant Coursework: Structured programming, and systems architecture.

ACADEMIC PROJECTS

Analyzing **Movie Scripts** for Identifying **Systematic Discriminators** in **MPAA Ratings** – Natural Language Processing

- Implemented an interpretable logistic regression model and feed it with approximately 700 movie scripts to understand if the movie script could be enough to get instrumental features to distinguish an R movie from a PG-13 movie, where the distinction is considered to be the grayest, according to the MPAA.

Mexico's Social and Economic Outlook and its influence in determining the most appropriate **Digital Currency**.

- Paper that propose a digital currency framework that could potentially fit Mexico's needs regarding its economic situation, the inclusion of all its sectors, and reduction of liabilities due to its current social drawbacks.

PROFESSIONAL EXPERIENCE

General Electric Digital, DTLP Summer 2017

- Created the software development plan for a detection tool that could help prevent fraud, based on employee's emails and job activities through pattern recognition, for the Security and Crisis Management team (SCM).
- Researched and designed dashboards to visualize building and employees' information using Sisense visualization tool. This project provided a visual perspective to prioritize the security and crisis management plans.

Central Bank of Mexico, Project Leader 2004 – 2016

Experienced software developer at the Central Bank department that achieved leading positions through collaborative work, supporting market operations with government securities for the Mexican financial system.

Government Securities Management System, SAV

Project Manager

- Directed the software development and test teams to upgrade a 15-year old securities management system to build a platform that supports continual improvements, incorporation of more business cases, and an average weekly settlement of 50,000 million pesos in operations.

Insights: The SAV required the direction of ten developers and testers, five IT supporting areas during five years to build a system that provides more than 200 different services and activities of 50 different user profiles.

Government Sector Statistics System

Software Engineer

- Participated in the redesign and upgrade of the statistical reports system that displays information of government securities distributed among the existing financial sectors and new ones.

Insights: This system required mastery in JAVA, SQL and Oracle DWH's ETL (extract, transform and load) tools to perform the data that exists since 1999 to fit the new requirements and a flexible design to incorporate future sectors.

SKILLS

Programming Languages: Java, Python, R, and XML.

Web Development: Flask, Javascript, and HTML5.

Data Analysis: Highcharts, Tableau, Sisense, and SQL.

Financial Market Training: Primary and secondary market, valuation and rate techniques for government securities.

CERTIFICATIONS

Certified Scrum Master (CSM) 2013

Project Management Professional (PMP) 2014

LANGUAGES

Spanish Native Speaker

English Fluent