# Javier Porras-Valenzuela

Residence: Heredia, Costa Rica

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## WORK EXPERIENCE

**Singularities** *April 2016 - Present*
*Product Development Lead, Machine Learning Engineer*

Led a team of five software engineers to design and implement a supply chain optimization engine that reduces transportation-related expenses by up to 30%. Rewrote the optimization algorithm to improve runtime performance by two orders of magnitude.

Implemented & debugged proprietary distributed Machine Learning algorithms on Apache Spark including variants of Random Forest, Naive Bayes, Logistic Regression, GLMs.

Led consulting projects, coordinating with customers to capture requirements and implement solutions based on ML & OR algorithms for logistics, supply chain management and fraud detection.

**Neustar** *June 2015 - April 2016*
*Junior Software Engineer*

Full-stack development for an in-house Java-based data analytics dashboard. Parsing and cleansing systems for supporting data extraction processes.

## HIGHER EDUCATION

**Tecnológico de Costa Rica** *2016 - present*
*MSc. Computer Science*

Took an elective in Deep Learning. Thesis in progress: Multicommodity Flow Optimization with Reinforcement Learning. **GPA: 3.76**

**Universidad Nacional de Costa Rica** *2012 - 2015*
*BSc. Systems Engineering*

Top 60 in nationwide universities' aptitude test 2011. Vice-president of student's association. Took two electives in Data Mining. **GPA: 3.78**

## COURSERA

**Deeplearning.ai's** Deep Learning Specialization.
**University of Alberta's** Reinforcement Learning Specialization.

## STRENGTHS & SKILLS

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| **Programming:** | Scala, Java, Python, R, SQL. |
| **Machine Learning:** | Tree-based methods, Deep Learning(ANNs, CNNs, RNNs, autoencoders), GLMs, SVM, Naive-Bayes, PCA. |
| **Data Science:** | Time series modeling (ETS, ARIMA, GLMs, intermittent demand), statistical analysis (distributions, hypothesis testing), data visualization. |
| **Tools & Frameworks:** | Apache Spark, Pandas, TensorFlow, Keras, Pytorch, ggplot2, Matplotlib, Seaborn, R for ML, Scikit-learn, Tableau |
| **Languages:** | Spanish (native), English (fluent), Japanese (intermediate, JLPT N4) |
| **Soft Skills:** | Tolerant to changes, team player, personal growth mindset. Experience leading scrum teams. Data-driven decision making. |