

# Jose Moises Vargas

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## SKILLS

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- **Languages:** Python, Ruby, Go, JavaScript, C++, Shell Scripting, SQL, Java.
- **Tools:** TensorFlow, Scikit-Learn, Numpy, Pandas, GraphLab, Docker, Jupyter, Spark, Keras, Hadoop, MongoDB, Postgres, Redis, Unix, Matlab, Eigen.
- **Modeling:** Deep Neural Networks, Hyper Parameter Tuning, SVMs, Structuring ML projects, Decision Trees, Clustering and Retrieval, Boosting.

## PROJECTS

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- **Cervical Cancer Screening** - <https://github.com/moisesvw/mlnd-cervix-screening>
  - Developed a Cervix type classifier given an image in a Kaggle competition.
  - Using TensorFlow, Scikit-Learn, and Pandas to build a pipeline to train a Convolutional Neural Network
  - Positioned in the Top 30% of the kaggle competition.
- **Kalman Filter** - [https://github.com/moisesvw/extended\\_kalman\\_filter2D](https://github.com/moisesvw/extended_kalman_filter2D)
  - Track and estimate velocity and position of a moving bicycle base on RADAR and LiDAR sensors.
  - Develop an Extended Kalman Filter with C++ to fuse sensors to produce estimation and tracking.
  - Successful Keep the root mean square error under 0.1
- **Traffic Sign Classifier** - <https://github.com/moisesvw/Traffic-Sign-Recognition>
  - Built a classifier that correctly classifies 43 German Traffic Signs.
  - Develop a pipeline to build a Convolutional Network base on LeNet-5 with TensorFlow and Python.
  - The classifier performed 96% of accuracy in the test set.

## EXPERIENCE

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- **Twilio** - *Senior Software Engineer* Bogotá, Colombia | November 2015 - December 2017
  - Successful programmed and maintained software that support more than 6M of users on Account Security Team.
  - Built and Designed secure API in collaboration with technical leads and architects.
  - Monitored services in on-call duties and Assisted users on support days.
- **Upwork** - *Freelance Software Engineer* Remote, San Francisco, CA | February 2014 - November 2015
  - Delivered 16 software projects, keeping average review rate in 4.9/5.0
  - Addressed customer requirements and maintained effective communications.
  - Built entire website portal for Indie Games in 1 week.
- **Humantelligence** - *Software Engineer* Remote, Miami, FL | March 2014 - March 2015
  - Engineered continuous delivery and continuous integration process for Culture Analytics Platform.
  - Developed a robust base test suite for unit and integrations tests with more than 800 covered cases.
  - Built pipeline process of data generation in background.
- **Stack Builders** - *Ruby Developer* Remote, New York, NY | March 2012 - February 2014
  - Worked in an international and cohesive development Team on 3 world-class projects.
  - Built backend and frontend software for online banking and payments platform.
  - Developed pieces of software for real estate CMS system.

## EDUCATION

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- **Udacity** - *Self-Driving Car Engineer* Current - Term 2/3
- **Udacity** - *Machine Learning Engineer* November 2017
- **Deeplearning.ai on Coursera** - *Deep Learning Specialization* February 2018
- **University of Washington on Coursera** - *Machine Learning Specialization* February 2017
- **Institución Universitaria UNIAJC** - *B.Sc. Computer Science and Systems Engineering* October 2014
- **Standford University on Coursera** - *Machine Learning* December 2011
- **Universidad del Valle** - *Technology In Information Systems and Software Engineering* October 2010