Eduardo Blancas Reyes

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Education

Columbia University Aug 2017 - Dec 2018 (Expected)
M.S. in Data Science

Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) Jan 2011 - May 2015
B.S. in Mechatronics Engineering. Graduated with honors.
Coursework in analog and digital electronics, instrumentation, control theory, embedded systems.

Additional coursework

Universidad Nacional Autónoma de México (UNAM) Aug 2016 - Jun 2017
Graduate Certificate in Applied Statistics
Relevant coursework: inference, sampling, multivariate analysis, experimental design, categorical data, regression and bayesian inference.

Professional Experience

Krieger Mexico City, MX
Lead Backend Engineer Jun 2016 - Aug 2017

- Oversaw backend development across projects to ensure code quality, performance and reliability
- Developed internal software tools that are used in several ongoing projects (input validation, software versioning, deployment, user permissions). These tools have reduced development time and increased team's productivity
- Wrote development guidelines to provide a starting point for new projects (code testing, system design, coding style)
- Built an automated data pipeline to periodically perform record matching in four insurance company's catalogs. Deployment in Google Cloud using Python and Apache Airflow
- REST Web Services development using Python and Google Cloud

University of Chicago (Center for Data Science and Public Policy) Chicago, IL
Data Science Fellow May 2015 - June 2016

- Built data pipelines using Python, PostgreSQL, PostGIS and Docker
- Designed a predictive model for Infonavit (largest mortgage provider in Mexico) to predict home abandonment. Worked with more than 100GB of data
- Developed a Machine Learning model using spatiotemporal data for the City of Cincinnati to identify properties at risk of building code violations. Worked with more than 50GB of data

Publications

- K. Ackermann, **E. Blancas Reyes**, S. He, T. Anderson Keller, P. van der Boor. R. Khan, R. Ghani. Designing Policy Recommendations to Reduce Home Abandonment in Mexico. In Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, KDD '16.
- **E. Blancas Reyes**, J. Helsby, K. Rasch, P. van der Boor, L. Haynes, R. Ghani, E. Cunningham. Early detection of properties at risk of blight using spatiotemporal data. Data for Policy 2016 at University of Cambridge.

Skills

Programming languages: Python, R, Objective-C, SQL.
Tools and technologies: scikit-learn, numpy, flask, Google App Engine, Google Cloud Datastore, Google Cloud Storage, PostgreSQL, PostGIS, Docker, MongoDB, Amazon EC2, Amazon S3, Amazon Beanstalk