Eduardo Blancas Reyes

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Education

Columbia University

August 2017 - December 2018 (Expected)

M.S. in Data Science

Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM)

January 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)

August 2016 - June 2017

Graduate Certificate in Applied Statistics

Graduate level coursework on inference, sampling, multivariate analysis, experimental design, categorical data analysis, regression modelsa and bayesian statistics.

Professional Experience

Krieger. Mexico City. Lead Backend Engineer

June 2016 - Present

- 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

Center for Data Science and Public Policy (University of 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

Fritime. Mexico City. *CTO and co-founder*

January 2014 - May 2015

- Led a technical 3-person team
- Engineered the iOS app prototype for our seed investment round
- Programmed web services for our iOS app

• Developed several 'civic apps' for iOS to provide easy access to legal regulations (e.g. traffic law) to prevent corruption

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.

Volunteering/Open Source

sklearn-evaluation. June 2016-Present

• Developed a Python package to evaluate Machine Learning models

Stanford Scholar Initiative. May 2016

- . Volunteered for two weeks to design the Practical Machine Learning with Python course
- Designed sections of the syllabus and provided code examples using scikit-learn and pandas

Awards

- 2017 National Council of Science and Technology scholarship recipient
- 2016 Fulbright-García Robles scholarship recipient
- 2011-2015 Academic talent scholarship for undergraduate studies at Tecnológico de Monterrey
- 2015 CENEVAL National Performance Excellence Award
- 2014 Reto GobMX Obtained a contract with the Federal Government of Mexico through an open competition
- 2014 1st Place in HackDF (Mexico City's Government)
- 2013 Honorific Mention 3rd Prize to Innovation in Transparency (World Bank, INAI)
- 2011 Honorific Mention in App 115 Challenge (Mexico's Chamber of Deputies)
- 2011 Physics and Mathematics Honors Program at Tecnológico de Monterrey

Skills

- Python (Advanced)
 - Extensive use of the standard library. Experience doing ETL, Machine Learning (scikit-learn), visualization (matplotlib),
 data cleaning (pandas, numpy) and web development (flask, jinja)
- R (Advanced)
 - Statistical modelling with R
- Google Cloud (Advanced)
 - App Engine (PaaS), Cloud SQL, Cloud Storage and Cloud Datastore (NoSQL DB)
- Objective-C (Advanced)
 - iOS App development
- UNIX (Intermediate)
 - Experience with UNIX-based Operating Systems and the command line (bash and zsh)
- SQL (PostgreSQL) (Intermediate)
 - Database design and data manipulation, some experience with PostGIS
- Other skills (Basic):
 - C, Matlab, Java, Docker, MongoDB, Apache Spark, Amazon EC2, Frontend web development (HTML, CSS, Javascript)