Eduardo Blancas Reyes

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Website: `https://github.com/edublancas`

Education

Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM)

B.S. in Mechatronics Engineering   January 2011 - May 2015

GPA: 92/100. Graduated with honors.

Additional coursework

Universidad Nacional Autónoma de México (UNAM)

Graduate Certificate in Applied Statistics   August 2016 - May 2017 (expected)

Graduate level coursework on inference, sampling, experimental design among others.

Universitat de Barcelona

Smart Cities and Universal Design Certificate   Winter 2014

Grade: 100/100.

Professional Experience

Krieger. Mexico City.

Backend Engineer   June 2016 - Present

- Lead a team of 4 to develop a Content Management System for a back office management company
- Set up infrastructure to deploy projects using Continous Delivery
- Python package development built on top of the App Engine SDK to enhance security and data integrity. The package is used in several ongoing projects
- Develop RESTful Web Services using Python and Google Cloud

Center for Data Science and Public Policy (University of Chicago). 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

Independent Mobile App Developer. Mexico City.   June 2011 - January 2014

- 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 Python package to evaluate Machine Learning models
- Currently working in the migration to the official **scikit-learn contrib organization** on Github

Stanford Crowd Course 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

- 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

- Advanced
  - Python, R, Objective-C
- Intermediate
  - UNIX, SQL, Bash, PostGIS
- Basic
  - C, Matlab, Java, Docker, MongoDB, Apache Spark