

Ramón Darío Iglesias
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EXPERIENCE

SUNPOWER, Richmond, CA 01/2015-01/2016
Financial Software Engineer

Reduced cost of the residential pricing engine by 80% and the response time by 90% by building and migrating to a new pricing engine built in Python and deployed in Amazon Web Services.

Enabled non-programming analysts to run complex financial analyses, and automated the process of cleaning, storing and visualizing existing lease information by building an internal web application using the existing financial code base, writing cleaning scripts and a task/queue system.

STANFORD UNIVERSITY, Stanford, CA 07/2014-12/2014
Graduate Researcher

Reduced wind farm construction costs by 6% by developing, as part of a multidisciplinary team, a method to parametrize construction cost, and optimize wind turbine layout and construction schedule.

Enabled contractors to visually and quantitatively gauge the risks of working days lost due to high winds by building a web application that predicts the expected number of days lost by month and the best hours of the day to work each month by training a discrete time-inhomogeneous Markov model using past hourly wind data.

Automatically generated crane path schedules for wind farm erection by developing a web application that processes GIS files and user cost input to build and solve a Traveling Salesman Problem.

EDUCATION

STANFORD UNIVERSITY 01/2016-PRESENT
Ph.D. in Civil Engineering

Focus: Optimal Control of Autonomous Fleets.

STANFORD UNIVERSITY 09/2012-06/2014
M.S. in Civil Engineering

Focus: Construction Data Analysis and Optimization.

THE UNIVERSITY OF TEXAS AT AUSTIN 08/2007-06/2012
B.S. in Civil Engineering

Focus: Risk Analysis, Design Optimization, Building Information Modeling.

RESEARCH EXPERIENCE

STANFORD UNIVERSITY 1/2016-PRESENT
Control of Autonomous Mobility-on-Demand Systems

Developed an asymptotically optimal algorithm for the routing and repositioning of autonomous taxis by modeling the operation as a queueing network. Validated the

STANFORD UNIVERSITY 10/2013-05/2014
Wind Farm Layout Optimization

Design and Optimization of turbine layouts.

SELECTED PROJECTS

GROUPSTATS.IO 08/2015-12/2015
Side Project

Designed the architecture, and built frontend and backend features for *groupstats.io*, a web application that allows users to visually analyze the dynamics of their Whatsapp chats.

LET'S GET WEIRD 11/2014-01/2015
Startup Weekend

Built a mobile app to share pictures with nearby people during the peak nightlife hours.

SKILLS

SOFTWARE: Python, Javascript, R, MATLAB; AWS, Git, AngularJS, Docker, CircleCI, L^AT_EX

LANGUAGES: Spanish (native), English (fluent), German (intermediate)