

# J. Catriel Lopez

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## LINKS

Github: JCatrielLopez  
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Dev.to: Catriel

## EDUCATION

### SYSTEMS ENGINEER

U. N. I. C. E. N

Expected 2021

## SKILLS

### PROGRAMMING AND TOOLS

Programming Languages:

Python • Java • R

Tools

Pandas • ggplot2 • NumPy • Excel • Shiny  
• PostgreSQL • Tensorflow • Keras •

Scrapy • bs4

Others

Bash • Linux

## LANGUAGES

Native:

Spanish

Proficient:

English

## EXPERIENCE

### TEACHING ASSISTANT | "TECNOLOGIA DE LA INFORMACION EN ORGANIZACIONES" - T. U. D. A. I

Aug 2020 – Dic 2020

- Worked with students in class, to help answer any question they had.
- Graded projects and exams.

## PROJECTS

### TITLE | GRADUATE THESIS

- Currently working on visiting patterns and automatic labeling of places from smartphone data. Using R to create location based data models to predict labels, and Shiny to visualize results.

### QUEUE-BASED MONTE CARLO ANALYSIS TO IMPROVE LUNCH TIMES ON CAMPUS | COLLEGE COURSEWORK

- Final work for the "Operations Research" course.
- We developed a Monte Carlo simulation of an everyday scenario for the dining hall on campus and proposed two solutions for the long queue times.
- We analyzed how our solutions impacted the queue times and presented the conclusions on a Shiny dashboard.
- Controlled through a R-Shiny dashboard, the simulation was implemented on Python utilizing the Simpy lib. End results were visualized by ggplot2 on R.

### RAYMAN | COLLEGE COURSEWORK

- Final work for the "Software engineering" course
- A Feature Driven Design of a Personal Health Record app for Android.
- I was involved in the design and implementation of the cloud server and database needed.
- Developed in Java and PostgreSQL, using Spring.

## COURSES AND CERTIFICATIONS

2019 **Fundamentals of Deep Learning for Computer Vision**  
(NVIDIA Deep Learning Institute)

2018 **Machine Learning para Seguridad en Redes y Detección de Malware**  
(Congreso Argentino de Ciencias de la Computación)

2017 **Experto Universitario en Seguridad de la Información**  
(Universidad Técnica Nacional) –

2017 **Modelado de Sistemas Orientados a Objetos con Rational**  
(U. N. I. C. E. N)

2015 **Internet of Things**  
(Centro de Innovación y Creación de Empresas)

2015 **Historia del Software Libre**  
(Festival Latinoamericano de Instalación de Software Libre)

2015 **Taller de Introducción a Arduino**  
(U. N. I. C. E. N)