

# LAURA M MADRID

## SOFTWARE ENGINEER



Laura Maldonado Madrid



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## RELATED COURSEWORK

Introduction to Computer Science |  
Software Design | Introduction to Mathematical Proofs |  
Introduction to the Theory of Computation |  
Innovation & Entrepreneurship | Design I |  
Linear Algebra | Calculus of several variables |  
Probability & Statistics

## EDUCATION

Honours BSc.  
Computer Science  
University of Toronto  
*Expected to graduate in 2024*

## PROGRAMMING LANGUAGES

### PROFICIENT

Python  
Java  
HTML & CSS

### FAMILIAR

Swift  
Javascript

### EXPOSURE

Typescript

## FRAMEWORKS/ LIBRARIES

React  
Gatsby  
Contentful  
Scrapy  
PowerApps

### TOOLS

Firebase  
Microsoft Azure

## PRODUCT & DESIGN TOOLS

Adobe Creative Suite  
Autodesk Sketchbook  
Figma  
Balsamiq  
Canva

## LANGUAGES

Spanish  
French  
Italian

## EXPERIENCE

### Computer Science Teaching Assistant | University of Toronto

June 2021 - Present

- Lead in-class exercises relating to **Python Fundamentals** with breakout groups of 40 students
- Teaching material such as **OOP**, Logic, Syntax, Testing and Refactoring during weekly office hours

### Software Development Intern | Tiary Inc.

June 2021 - August 2021

- Renovated the Blog, FAQ, Checkout Complete and Order Tracking pages using **React**
- Created a **Python** program to clean up the main user data file from unsubscribed and bounced emails
- Working on the new Tiary Studios info site using **Javascript**, **Gatsby** and **GraphQL**

### Product Marketing Management Intern | Microsoft

July 2019 - August 2019

- Created a **PowerApps** Inventory Management Platform which reduced the request processing time for marketing materials
- Demoed the app at the **Microsoft National Annual General Meeting**
- Explored **PowerApps**, **Power BI**, and the **Azure Platform** through weekly tasks

## PROJECTS

### Math Flashcard Generator

June 2021 - August 2021

- Creating a **Python** diagnostics tool alongside Professor Micheal Pawliuk for students to build strong mathematical foundations
- Implementing a flashcard queue to optimize student learning based on their confidence score, number of attempts and the time taken per flashcard

### SPiRL

June 2018 - June 2019 || March 2021 - Present

- IOS app implemented in **Swift** with the goal to create a stronger, more mainstream world for Women's Sports
- Pitched the App at the **2018 Student's Apple Developer Conference**
- Used **Firebase** for login authentication
- Parsed Fifa and National Women's Hockey League RSS Feeds for the home page

### Truth Table Generator

May 2020

- Created a **Python** program to transform logical statements with up to five inputs (P, Q, R, S, T) into Binary or True/False truth tables

### Dog Illness Prevention Project

July 2020 - August 2020

- Joined the "Wisc Up a side project" program at the UTM Women In Science & Computing (WISC) club to learn new skills with a partner and a mentor
- Used the Stanford Dogs Image Dataset to build an **image recognition model** using **Python**
- Learned to make a **web crawler** using **Scrapy** and cleaned the data for information about a breed's history, life span, potential diseases and symptoms
- Used **repl.it** to work simultaneously on the project with my partner

## EXTRA CURRICULAR ACTIVITIES

### Events & Communications Coordinator | UTM Robotics

April 2020 - May 2021

- Rebuilt the current **UTM Robotics Website** with **Gatsby**, **Contentful**, **HTML & CSS**, **Javascript**
- Connected with external club members, graduate students and professors for collaborations
- Produced content to promote events on social media and introduce students to robotics