

ABDIEL CORTÉS

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Objective

Obtain an Internship/COOP/REU that allows me further to enhance my knowledge and skills in the Software Engineering field (or its related fields).

Education

University of Puerto Rico – Mayagüez Campus (UPRM)

Bachelor of Science in Software Engineering
Third Year Undergraduate Student

Expected Graduation Date: December 2022

Cumulative GPA: 3.60/4.00

Relevant Courses: Data Structures, Discrete Math for CS, Circuit Analysis 1, Programming Languages, Computer Architecture 1

Google Tech Exchange Scholar

January 2021 – Present

- Chosen as one of 115 students to participate in Google's "Tech Exchange," a program designed to give access to cutting edge industry courses, increasing preparedness for software engineering careers.

Skills

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|-------------------------------------|------------------------------------|---------------------------------------|
| - Java programming (advanced) | - Objective C (iOS - intermediate) | - Fusion 360 (basic) |
| - Python programming (intermediate) | - React JS (basic) | - Siemens NX (basic) |
| - C++ programming (intermediate) | - Arduino (basic) | - Fully fluent in English and Spanish |
| - C programming (basic) | - AutoCAD (basic) | (written and oral) |

Work Experience & Extracurriculars

NYU CENTER FOR DATA SCIENCE UNDERGRADUATE RESEARCH PROGRAM

NYU – January 2021 – Present

Undergraduate Researcher (Python)

- New York University's Center for Data Science undergraduate research program aimed at African American and Latinx students
- Researched the different methods used to train Recurrent Neural Networks and how to improve them

ADVERSARIAL TECHNIQUES FOR FACIAL RECOGNITION MODELS

UPRM & MIT Lincoln Lab – August 2020 – Present

Undergraduate Researcher (Python)

- Researched adversarial attacks aimed at fooling facial recognition machine learning systems
- Worked on researching and implementing black-box sparse adversarial attacks on Convolutional Neural Networks

ADVANCED PROGRAMMING LAB

UPRM – January 2020 – December 2020

Instructor's Assistant (Java and C++)

- Gave individual help with object-oriented programming to students in a classroom of around 20 students
- Audited lab assignments before they were given to students, as to make sure they were worded correctly and had no code errors

FACEBOOK UNIVERSITY INTERNSHIP

Remote – June 2020 – August 2020

iOS Intern (Objective C)

- Participated in a three-week Objective C iOS mobile development course by Code Path
- Used the Parse iOS SDK to create a social media app that allows artists to share and sell their art

ASME STUDENT DESIGN COMPETITION PROJECT

UPRM – August 2018 – May 2020

Computer Department Programmer (C++)

- Worked on programming the robot's servomotors and wireless communication using Arduino (C++)
- Researched for microcontrollers, sensors, and servos that meet the robot's design and needs
- Ranked 16 out of 56 competing universities in ASME's E-Fest North 2019

PUERTO RICO ROBOTICS ASSOCIATION VEX U TEAM

UPRM – January 2020 – March 2020

Programmer (C++)

- Programmed robots using Vex Code (C++) for autonomous and driver control
- Awarded the Design Award, Robot Skills Award and qualified for the Vex World Championship 2020

UPRM OFFICE OF TRANSPORTATION

UPRM – September 2018 – May 2019

Work and Study Administrative Assistant

- Processed and managed sensitive documents for financial and statistical analysis related to the university's vehicles