

Christian A. Rodriguez

Undergraduate Student, Researcher & Software Developer

contact

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languages, frameworks & tools

Python, Django, Flask
C, C++
HTML, CSS, JS
SQL, PHP
Git, LaTeX
Sage, Matlab

relevant coursework

Computer Science:

Operating Systems
Machine Learning
Databases
Web Development
Data Structures
Computer Architecture

Mathematics:

Abstract Algebra
Differential Equations
Linear Algebra
Discrete Mathematics

education

2011–Now **Computer Science and Mathematics B.S.** University of Puerto Rico, Rio Piedras
Major GPA: **4.0**, GPA: **3.9** Graduation Date: **May 2016**

research experience

2011–Now **Emmy Noether Lab** University of Puerto Rico, Rio Piedras
ccom.uprrp.edu/labemmy

Research student collaborating with Dr. Ivelisse Rubio

Ongoing Work: Value Sets of a Class of Permutation Polynomials

- Characterizing the value set of a specific class of polynomials
- Determining conditions such that these polynomials are permutation polynomials

Sum 2013 **TRUST REU Program** University of California, Berkeley
truststc.org

Research intern under Daniel Aranki & Dr. Ruzena Bajcsy

Improved a Machine Learning framework developed for Weighted Distance Functions.

Project selected to be presented at the TRUST Autumn Conference

Sum 2012 **SUAMI REU Program** Carnegie Mellon University
math.cmu.edu/cna/summer_institute.html

Summer intern under supervision of Dr. Gregory Johnson

Studied a Generalization of Mersenne Primes.

Proved a theorem for primality tests & implemented a primality testing algorithm

technical experience

- Lead Web Developer for Just Maid 4 You [startup]
- Extended an Open Source Django extension for utilizing PostgreSQL native array fields (Django)
- Web Application that automates a pdf form fill out process for UPR Professors (Django, PostgreSQL)
- Tracking system for archiving data on power outages in Puerto Rico (Flask)
- Developed a Web Application for University Students to easily buy/sell books (Django)
- Designed & developed Web Application for student grade report management and analytics (PHP, jQuery, MySQL)
- Designed & developed a Search Engine for movies as a class project (C++)

recent activities & awards

- President of the recently established UPRRP ACM Student Chapter. (Winter 2013)
- Selected to intern at Cloud Elements in the First Piloto 151 Internship Exchange Program
- Presented research posters at the SACNAS National Conference. (2012, 2013)
- Participated in LinkedIn Intern Hackathon. (2013)
- Participated in Puerto Rico Tech Summit Hackathon. (2013)
- Won best application award at Hackathon at Univ. Metropolitana. (2013)