

Christian A. Rodriguez

Undergraduate Student, Researcher & Software Developer

contact

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languages, frameworks & tools

Python, Django, Flask
HTML, CSS, JS
Ruby, SQL, PHP
C / C++
Git, LaTeX
Sage, Matlab
...and growing

relevant coursework

Computer Science:

Data Structures
Algorithms
Databases
Programming Languages
Operating Systems
Machine Learning

Mathematics:

Linear Algebra
Discrete Mathematics
Abstract Algebra
Differential Equations

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**

technical experience

- Developed Open Source Clients to interact with the Cloud Elements API. (Ruby, Python)
- Lead Web Developer for Just Maid 4 You. [startup]
- Extended an Open Source Django extension for utilizing PostgreSQL array fields. (Django)
- Developed a web-hook to automatically backup Github repo's to Drive / Dropbox. (Ruby)
- 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 a Search Engine for movies as a class project. (C++)

research experience

2011–2014

Emmy Noether Lab

University of Puerto Rico, Rio Piedras

Research student collaborating with Dr. Ivelisse Rubio
Ongoing Work: Generating Permutation Trinomials over Finite Fields

- Characterized value set of a class of trinomials.
- Provided a construction to provide permutation polynomials.

Sum 2013

TRUST REU Program

University of California, Berkeley

Research intern under Daniel Aranki & Dr. Ruzena Bajcsy
Improved a Machine Learning framework to learn Weighted Distance Functions.
Project selected to be presented at the TRUST Autumn Conference.

Sum 2012

SUAMI REU Program

Carnegie Mellon University

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

recent activities & awards

- Selected as a finalist for the CODE2040 Fellows Program. (2014)
- Won Staff Choice award in HackPR Spring 2014 Hackathon. (2014)
- Presented Research Poster at the Joint Mathematics Meetings. (2014)
- President of the University of Puerto Rico, Rio Piedras, ACM Student Chapter. (Winter 2013)
- Selected as one of the first participants of the Codetrotters Fellowship Program. (Winter 2013)
- 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)