

Christian A. Rodriguez

Undergraduate Researcher and Software Developer

contact

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languages, frameworks & tools

Python, Django, Sage
C, C++
HTML, CSS, JS
SQL, PHP
Git, LaTeX
Maple, 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 2015**

research experience

2011–Now **Emmy Noether Lab** University of Puerto Rico, Rio Piedras
ccom.uprrp.edu/labemmy
Research student under supervision of Dr. Ivelisse Rubio
Ongoing Work:

- On a class of Permutation Polynomials over Finite Fields
- Proved a proposition that determines the value set of these polynomials

Previous Work:

- Latin Squares generated by Permutation Polynomials

Sum 2013 **TRUST REU Program** University of California, Berkeley
truststc.org
Research intern under supervision of Daniel Aranki & Dr. Ruzena Bajcsy
Worked on a Machine Learning framework for Weighted Distance Functions
Project was selected as best project to present 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
Worked on 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)
- Web Application for University Students to easily buy/sell books (Django)
- 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

- Presented research poster at the SACNAS National Conference (2013)
- Participated in LinkedIn Intern Hackathon (2013)
- Participated in Startups of Puerto Rico Hackathon (2013)
- Won best application award at Hackathon at Univ. Metropolitana (2013)
- Presented research poster at the SACNAS National Conference (2013)