

Christian A. Rodriguez

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EDUCATION

Computer Science & Mathematics B.S.

University of Puerto Rico - Rio Piedras

- Major GPA: 4.0
- GPA: 3.9

Graduation Date: May 2015

WORK EXPERIENCE

Summer Research Intern

UC Berkeley, CA

Summer 2013

- Participated in TRUST REU program (<https://www.truststc.org/>)
- Research on a Machine Learning Framework for Weighted Distance Functions

Summer Research Intern

Carnegie Mellon University, PA

Summer 2012

- Participated in the SUAMI program (http://www.math.cmu.edu/cna/summer_institute.html)
- Researched a generalization of Mersenne primes
- Designed & Proved a theorem for primality test and implemented a primality testing algorithm

Research Assistant

University of Puerto Rico, Rio Piedras

Aug 2011 to Present

- Research under supervision of Dr. Ivelisse Rubio (<http://ccom.uprrp.edu/~labemmy/>)
- Ongoing Work: Studying a family of polynomials over finite fields
- Proved a proposition that helps determine the size of the value set of these polynomials
- Previous Work: Latin Squares generated by Permutation Polynomials
- Proved a proposition to determine when two Latin Squares are MOLS

TECHNICAL EXPERIENCE

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

LANGUAGES, FRAMEWORKS & TOOLS

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|-------|--------------------------|---------|----------------|
| • Git | • Python / Django / Sage | • SQL | • C/C++ |
| • PHP | • HTML / CSS / JS | • LaTeX | • Maple/Matlab |

RECENT ACTIVITIES

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- Participated in the Puerto Rico Tech Summit Hackathon (2013)
 - Won best application award at Hackathon in Universidad Metropolitana (2013)
 - Participated in Startups of Puerto Rico Hackathon (2012)
 - Presented research poster at SACNAS National Conference (2012)