Christian A. Rodriguez

CODE2040 Fellow & 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. Greggory Johnson

Studied a Generalization of Mersenne Primes.

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

recent activities & awards

- CODE2040 2014 Fellow at Code for America. (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)