Rafael Lizarralde

Computer Science MS/PhD Student at University of Massachusetts Amherst

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EXPERIENCE

UMass Amherst, Amherst, MA — *Research Assistant*

FEBRUARY 2016 - CURRENT

Developing collaboration and adaptive learning systems for the MathSpring online K–12 math tutoring system.

Cornell University, Ithaca, NY — *Research Assistant*

JUNE 2011 - OCTOBER 2013

Worked on genetic engineering for Rapidapter project (plasmid–based targeted mutagenesis in E. coli), in Dr. John March's Metabolic and Signal Engineering Laboratory.

Sol Genomics Network, Ithaca, NY— *Programming Intern*

JUNE 2009 - AUGUST 2009

Improved genomics analysis web tools, working with Perl and Debian.

EDUCATION

UMass Amherst, Amherst, MA — *Computer Science MS/PhD*

SEPTEMBER 2015 - CURRENT

Favorite courses: Advanced Algorithms, Machine Learning, Probabilistic Graphical Models.

Cornell University, Ithaca, NY — *Biological Engineering B.Sc.*

AUGUST 2010 - MAY 2013

Favorite courses: Algorithm Analysis, Computational Linguistics, Computer–Aided Engineering, Discrete Structures, Differential Equations, Uncertainty Analysis in Engineering.

PROJECTS

Visual Vote Counter — *Entrepreneurs' Organization "Shark Swim" Event*

JUNE 2014

Wrote a Java program to count votes (cast with colored flags) in an auditorium, by analyzing pictures taken from the stage.

International Genetically Engineered Machines (iGEM) — *3D Animator and Project Leader*

FEBRUARY 2012 - OCTOBER 2013

Developed 3D animation for 2012 project presentation, recruited, restructured, and led team in 2013.

SKILLS

Algorithms

Machine learning

Java, Lua, Python, Perl

Copy editing

AWARDS

Best Human Practices Advance (iGEM 2013)

Top 16 (iGEM 2012)

Best Human Practices, Best Wiki, Finalist (iGEM Americas East 2012)

Cornell University Dean's List (Fall 2010 – Fall 2011, Fall 2012 – Spring 2013)

LANGUAGES

English, Spanish