Miguel Velez

Website mijecu25.com/miguelvelez.html
LinkedIn linkedin.com/in/miguelvelezmj25
Email miguelvelez@mijecu25.com
GitHub github.com/miguelvelezmj25

Skills

Java, C#, Python, SVN, MySQL, Unity, Ruby

Education

University of St. Thomas	Computer Science	Fall 2010 – Fall 2015
Minor: Physics	**GPA:** 3.99/4.00	**CISC/MATH GPA:** 4.00

Summa Cum Laude *Current and Future Relationships Between Robots and Humans*

Relevant coursework: Data Structures, Algorithms, Databases, OS, Networking, Architecture, AI and Robotics, Information Security, Applied Statistics, Multivariable Calculus

Work Experience

Research Intern – Massachusetts Institute of Technology   June 2015 – Present
- Joining Prof. Armando Solar-Lezama's CAP research group to develop tools and techniques that exploit computing power to help programmers tackle programming problems.

Computer Science Undergraduate Research Student – UST   August 2014 – Present
- Enhanced WAH, EWAH, and VAL compression techniques to query faster and more efficiently with metadata.

Jr. Application Developer – Sportradar US   February 2015 – May 2015
- Developed Ruby applications to monitor and parse sport feeds using JRuby.

Cloud Developer Intern – Valtira, LLC   February 2013 – January 2015
- Implemented and maintained Web Applications with Java servlets, AngularJS, and MySQL databases.

Computer Science & Chemistry Undergraduate Research Student – UST   February 2014 – May 2014
- Implemented a programming language that analyzed user input related to organic chemistry.
- Poster *Extending SMILES to Encode Reaction Mechanisms* presented at Inquiry at UST, May 2014

Side Projects

dsa
Implementation of data structures and algorithms

Personal Backup
Software tool to backup folders and files

Cubie Cruiser
2D endless runner game focused on avoiding obstacles

Urban Tennis
First full game published for the web

Space Protector
Space shooter game soon to be published on Android

Unity Game Development Manual
Manual describing the basics of Unity game development using the editor and scripting

Honors and Recognitions

MSRP Research Internship at MIT 2015
UST Collaborative Inquiry Grant 2014, 2015
International Student Leadership Scholarship 2012
Bev and Pat Flaherty Scholarship 2011 – 2014
Dean's Honor List Fall 2010 – Present
University of St. Thomas International & Tuition Scholarship 2010 – Present
American Field Service International Scholarship 2008 – 2009

Activities

Game Design Club 2014 – Present
Computer Science Consultant 2012 – Present
Computer Science Club 2011 – Present
Globally Minded Student Association 2010 – Present

STAR President 2012 – 2013
2 STEM Learning Communities 2011
Morrison Hall Council 2010 – 2011
Spanish Tutor 2010 – 2012