Miguel Velez

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

Skills

Java, Python, C#, MySQL, Unity

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 & Robotics, Information Security, Applied Statistics, Multivariable Calculus

Work Experience

Research Intern – Massachusetts Institute of Technology   June 2015 – August 2015
- Implemented features in Sketch that increased its expressiveness and made it more powerful.
- <u>Simpler Implementation of Sketches Through Enhanced Expressiveness</u> *MIT Summer Research Poster Session 2015*.

Computer Science Undergraduate Research Student – UST   August 2014 – Present
- Parallelized sequential reachability algorithms to increase the efficiency of analyzing source code.
- Enhanced WAH compression technique to query faster and more efficiently with two sets of metadata.

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

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

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

Side Projects

dsa	**Personal Backup**
Implementation of data structures and algorithms	Software tool to backup folders and files
Cubie Cruiser	**Urban Tennis**
2D endless runner game focused on avoiding obstacles	First full game published for the web
stats	**Unity Game Development Manual**
Generator of file system statistics	Guide of the basics of Unity game development

Honors and Recognitions

MSRP Research Internship at MIT 2015 (10.5% acceptance rate)
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 – 2015
American Field Service International Scholarship 2008 – 2009

Activities

Game Design Club 2014 – Present	**STAR President** 2012 – 2013
Computer Science Consultant 2012 – Present	**2 STEM Learning Communities** 2011
Computer Science Club 2011 – Present	**Morrison Hall Council** 2010 – 2011
Globally Minded Student Association 2010 – Present	**Spanish Tutor** 2010 – 2012