

Miguel Velez

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

Skills

Java, Python, C#, 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

- Implemented features in the Sketch Engine that increased the domain of application of the engine.
- Enhancing the Sketch Synthesis Engine *MIT Summer Research Poster Session 2015.*

Computer Science Undergraduate Research Student – UST August 2014 – Present

- 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 using JRuby.

Computer Science & Chemistry Undergraduate Research Student – UST February 2014 – May 2014

- Implemented a programming language that analyzed user input related to organic chemistry.
- Extending SMILES to Encode Reaction Mechanisms *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 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 (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 – Present
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