

Miguel Velez

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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.
- Simpler Implementation of Sketches Through Enhanced Expressiveness *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.

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

Cubie Cruiser

2D endless runner game focused on avoiding obstacles

stats

Generator of file system statistics

Personal Backup

Software tool to backup folders and files

Urban Tennis

First full game published for the web

Unity Game Development Manual

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

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