# **Miguel Velez**

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Skills

Java, Python, C#, MySQL, Unity

#### Education

University of St. ThomasComputer ScienceFall 2010 – Fall 2015Minor: PhysicsGPA: 3.99/4.00CISC/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

- 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.
- 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 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 **Computer Science Club** 2011 – Present **Morrison Hall Council** 2010 – 2011

Globally Minded Student Association 2010 – Present Spanish Tutor 2010 – 2012