

# Joshua Morton

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## Education

**Georgia Institute of Technology**  
Computer Science  
Graduating May 2017  
GPA: 3.27 (3.48 CS)

## Skills

- Machine Learning
- Automated Intelligence
- Algorithms
- Computer Graphics
- Python
- Java, Javascript, C

## Organizations

### The Agency

*External Affairs* Since Feb 2015  
*Secretary* May 2014 – Jan 2015

- Undergraduate automated intelligence research club
- Present, lead projects, and court faculty speakers

### Undergraduate Council

*Vice President* Since Jan 2015

- Facilitate communication between students and staff in the College of Computing
- Resource for students interested in leading organizations

### Freshman Activities Board

*Adviser* Since Jan 2015

- Improve introductory courses
- Lead Tech Talks and seminars aimed at new students

## Awards

- Top 10 at MHacks IV for Serve
- First at Google Games Atlanta 2015
- Voted Outstanding Sophomore in Computing (2015)
- 4<sup>th</sup> place in IARRC 2015

## Experience

### GT College of Computing

August 2015 – Present

Career Ambassador

- Provide one on one resume and interview advice
- Lead seminars on technical topics

### Decision First Technologies

May 2015 – Aug 2015

Business Intelligence Intern

- Build internal tools to facilitate constructing HTML and Javascript dashboards
- Create an installer to improve the marketability of an existing product
- Prototype tools, dashboards, and other projects and investigate and report on their feasibility

### RIM@GT

Dec 2014 – May 2015

Undergraduate Researcher

- Build an application in C++ with OpenSceneGraph to visualize live hand pose data from a dataglove
- Apply machine learning algorithms to the data in real time using WEKA in Java via Java Native Interface

### Circus Camp

May 2009 – July 2014

Camp Counselor

- Teach children ages 5-13 skills like juggling, unicycling acrobatics, and related circus skills
- Assist in planning and performing camp-wide shows

## Projects

### IARRC (Racecar)

[github.com/RoboJackets/iarrc-software](https://github.com/RoboJackets/iarrc-software)

- Entry in the 2015 International Autonomous Robot Racing Competition
- Reactive control robot in C++ using ROS, and OpenCV
- Navigates a racecourse with other vehicles

### ClassRank

[github.com/joshuamorton/turnt-octo-tyrion](https://github.com/joshuamorton/turnt-octo-tyrion)

[github.com/joshuamorton/ClassRank](https://github.com/joshuamorton/ClassRank)

- Application to allow students to more intelligently schedule classes based on existing preferences
- Uses online collaborative filtering in Python on a Tornado webserver using SQLAlchemy

### Serve

[github.com/joshuamorton/serve](https://github.com/joshuamorton/serve)

- Built in 36 hours at MHacks IV, Serve allows users to host small snippets of code and call them via an API
- Runs on Flask wrapping code execution in docker containers for security