

# James A. Harris

203 Serendipity Way • Dallas, Georgia 30157 • (609)-802-7512 • [jamesharris456@gatech.edu](mailto:jamesharris456@gatech.edu)

## EDUCATION

---

### Georgia Institute of Technology

- Bachelor of Science in Computer Science (Expected Graduation 2019).
- GPA of 4.0 (rising third year).

### Robbinsville Highschool

- GPA of 4.525 on 5.0 Weighted Scale.

Atlanta, Georgia

August 2015 – Present

Robbinsville, NJ

September 2010 - June 2015

## Experience

---

### CS2110: Computer Organization and Programming Undergraduate TA

August 2017 – December 2017

- Undergraduate teaching assistantship for Georgia Tech's College of Computing
- Material in this course ranges from logic gates, to basic computer organization, to C programming.
- Currently hired to teach for this course next semester (responsibilities similar to those of CS1331 detailed below).

### Ultimate Software Internship

May 2017 – August 2017

- Worked with Product Innovation and Strategy Team to develop prototype products for Human Capital Management.
- Created prototype web applications using Angular JS and node JS.
- Leveraged different technologies ranging from document databases, to web crawlers, to facial recognition APIs.
- Contributed to the creation of an internal tool for managing data gathered from ethnography studies.

### CS1331: Introduction to Object Oriented Programming in Java Undergraduate TA

January 2016 – May 2017

- Collaborated with other TAs to create new homework assignments and maintained a high proficiency in Java.
- Taught a recitation once per week with another TA to go over programming examples relevant to the week's lectures.
- Graded assignments, and answered student questions through the online forum and during office hours.

## PROJECTS

---

### Git Submission Tool <https://github.com/JH456/Git-Submitter>

- Submits student assignments to GitHub repositories.
- Successfully used during the CS1331 Spring 2017 semester.
- Used Java HTTP libraries and GitHub API.

### JavaScript IRC Bots <https://github.com/JH456/Pann-IRC> <https://github.com/JH456/DL-IRC>

- Used JavaScript and several APIs, including the Yo API, to create a modular IRC bot.
- Includes functionality ranging from math, to user profiles, to basic encryption.
- DL-IRC uses youtube-dl to download videos off YouTube and has an updated, improved configuration structure.

### Simple OpenGL graphics engine <https://github.com/JH456/OGL-3D-Practice-Engine>

- Made a basic engine for generating simple shapes in a 3D environment using the Open Graphics Library in C++.
- Gained experience working in a low level language and managing memory.

## ACTIVITIES

---

### FIRST Robotics Competition (FRC 2590, Nemesis)

September 2012 - June 2015

- Programmed the competition robots in the LabView language from 2013 – 2015.
- Became leader of the software team for the 2015 competition.
- <http://frc2590.org>

## SKILLS

---

**Concepts:** OOP/OOD, data structures/algorithms, discrete mathematics/combinatorics, Linear Algebra, Calculus, compilers, statistics, databases (MongoDB and some familiarity with MySQL), and computer organization.

**Programming, Scripting, and Markup Languages:** C, Java, Node JS, Angular JS, Python, HTML/CSS, and PHP.

**Spoken Languages:** English (Native), Italian (Basic).

**Applications:** Git, Microsoft Word, Excel, Powerpoint, Intelli-J, VIM.

**Operating Systems:** Windows, Linux.