# James A. Harris

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**EDUCATION**

**Georgia Institute of Technology Atlanta, Georgia**

- Bachelor of Science in Computer Science (Expected Graduation 2019).*August 2015 – Present*

*-* GPA of 4.0 (rising third year).

**Robbinsville Highschool Robbinsville, NJ**

- GPA of 4.525 on 5.0 Weighted Scale.*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](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**.**