# James A. Harris

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**OBJECTIVE**

To obtain a part time internship for Spring 2017, and/or a full time summer internship for the Summer of 2017.

**EDUCATION**

**Georgia Institute of Technology Atlanta, Georgia**

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

*-* Freshman Year GPA of 4.0.

**Robbinsville Highschool Robbinsville, NJ**

- GPA of 4.525 on 5.0 Weighted Scale.*September 2010 - June 2015*

- Achieved Certificate for Harvard University's online CS50x course during senior year.

**SKILLS**

**Concepts:** Git, LAMP/LEMP stack setups, basic application and web security, object oriented programming, knowledge of data structures and sorting/searching algorithms, discrete mathematics, Linear Algebra, Calculus, and computer organization.

**Programming, Scripting, and Markup Languages:** C, C++, Java, LabView, JavaScript, HTML, CSS**.**

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

**Applications:** Microsoft Word, Excel, Powerpoint, Visual Studio, Eclipse, VIM**.**

**Operating Systems:** Windows, Linux**.**

**Experience**

**CS1331: Introduction to Object Oriented Programming Undergraduate Teaching Advisor** January *2016 - Present*

*-* Currently working as an undergraduate TA at the Georgia Institute of Technology’s College of Computing.

- Teaches a recitation once per week with another TA to go over programming examples relevant to the week’s lectures.

- Grades assignments, and answers student questions through the online forum and during office hours.

- Collaborates with other TAs to create new homework assignments for the class.

**PROJECTS**

**Password Protected Internet Radio Server**

- Created a private internet radio server for friends to listen to music on, hosted on a Digital Ocean VPS.

- Gained first-hand experience with web security including obtaining SSL certificates, and securing SSH servers.

- Became familiar with basic server administration.

- Implemented the PHP, JavaScript, HTML5, and CSS programming/markup languages.

**JavaScript IRC Bots**

- 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 configuration structure.

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

**Simple OpenGL graphics engine**

- Made a basic engine for generating simple shapes in a 3D environment using the Open Graphics Library in C++.

- Gained experience with C/C++ concepts such as pointers and memory management.

- https://github.com/JH456/OGL-3D-Practice-Engine

**ACTIVITIES or LEADERSHIP**

**FIRST Robotics Competition** *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.

- Trained underclassmen in programming and handled most robot software.

- Won three district/regional competitions and advanced to the World Championships in 2015 season alone.

- Acquired public speaking skills by presenting robot demonstrations and attending fundraisers and trade shows.

- [http://frc2590.org](http://frc2590.org/)