

# James A. Harris

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## OBJECTIVE

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To obtain a full or part time summer internship for the Summer of 2016.

## EDUCATION

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### Georgia Institute of Technology

- Bachelor of Science in Computer Science (Expected Graduation 2019).
- First Semester GPA of 4.0.

**Atlanta, Georgia**  
*August 2015 – Present*

### Robbinsville Highschool

- GPA of 4.525 on 5.0 Weighted Scale.
- Achieved Certificate for Harvard University's online CS50x course during senior year.

**Robbinsville, NJ**  
*September 2010 - June 2015*

## SKILLS

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**Concepts:** Linux, LAMP/LEMP stack setups, basic application and web security, basic cryptography, object oriented programming, searching and sorting algorithms and efficiencies.

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

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

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

**Operating Systems:** Windows, Linux.

## Experience

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### Mercer County Library

*August 2014*

- Volunteered at local library over the summer, helping children in the summer reading program.
- Signed children into the program, gave out prizes, checked reading logs, and helped with some office work.

### CS1331: Introduction to Object Oriented Programming Undergraduate Teaching Advisor

*January 2016 - Present*

- Currently working as an undergraduate TA at the Georgia Institute of Technology.
- Leads a recitation once per week with another TA, and helps to grade assignments and answer student questions.

## PROJECTS

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### 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.
- Implemented the PHP, JavaScript, HTML5, and CSS programming/markup languages.
- <https://www.yoloswagg.in>

### 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>

### C++ Text-based Blackjack

- Programmed Blackjack in C++ with entertaining ASCII graphics.
- Gained experience with C++ concepts such as pointers and linked-list usage.
- <https://github.com/JH456/Text-Based-Blackjack>

## ACTIVITIES or LEADERSHIP

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### 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>