

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

- Bachelor of Science in Computer Science (Expected Graduation 2019).
- Freshman Year 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

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/OpenGL-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>