

James Harris

Preferred: Jim

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EDUCATION

Georgia Institute of Technology (Atlanta, Georgia)

August 2015 – Present

- Bachelor of Science in Computer Science (Senior, graduating in May 2019).
- Concentrations are Systems/Architecture and Information/Internetworks
- GPA of 3.97

EXPERIENCE

Amazon.com SDE Intern for AWS Secrets Manager

May 2018 – August 2018

- Successfully designed, implemented, and presented an addition to the Java SDK for AWS Secrets Manager.
- Gained experience with common development practices in a security-minded setting.
- Became familiar with caching strategies and thread-safe programming.

Ultimate Software Engineering Intern

May 2017 – August 2017

- Worked on the Product Innovation and Strategy Team to develop prototype products for Human Capital Management.
- Created proof of concept web applications using AngularJS and Node.js.
- Contributed to the creation of an internal tool for managing data gathered from ethnography studies.

ACTIVITIES

Georgia Institute of Technology Undergraduate Teaching Assistant

January 2016 – Present

- Helps lead a recitation, while holding office hours, answering student questions, grading, and helping newer TAs.
- Develops tools and visualizations for detecting and preventing academic dishonesty on assignments.
- Computer Organization and Programming: Teaches computer organization, assembly, and C programming.
- Intro to Object Oriented Programming: Taught object oriented programming concepts using Java.

Vice President of Finance, College of Computing Undergraduate Council

January 2018 – Present

- Organizes meetings between CoC Student Organization leadership and assists with logistical issues.

PERSONAL PROJECTS

CircuitSim Collusion Detection Feature <https://github.com/JH456/CircuitSim/tree/feature/revision-tracking>

- Used a simple, tamper-resistant block chain to save revision history for circuit simulation files.
- Helps detect instances of academic dishonesty on homework assignments and timed lab assignments for CS 2110.

Graph Visualization of MOSS (Measure of Software Similarity) scores for CS 2110 Assignments

- Uses a custom D3.js frontend to show links between similar assignment submissions based on MOSS scores.
- Makes it much easier and faster to find groups of suspicious submissions than previous methods.

Slack/IRC Bot Frameworks <https://github.com/JH456/DL-IRC>

- Used JavaScript and several APIs, including the YouTube API, to create a modular IRC bot framework.
- Also added support for connection to Slack channels by implementing clean abstractions over the bot's backend logic.
- Wrote the application with extensibility in mind to support more features and connections to other chat applications.

SKILLS

Concepts and Course Work:

- Malware Analysis/Information Security
- Networking and Operating Systems
- Computer Organization and Compilers
- OOP/OOD, TDD
- Data Visualization
- Databases (SQL and NoSQL)
- Parallel Programming

Hobbies

- Lockpicking
- Origami

Languages:

- Java
- Javascript
- C
- HTML & CSS
- Python
- PHP

Applications and Operating Systems:

- Linux
- Windows
- Git

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