# James Harris

Preferred: Jim

203 Serendipity Way, Dallas, Georgia 30157 • (609)-802-7512 • jharris9456@gmail.com

**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  ☆★★★★