# Siddarth Senthilkumar

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Princeton, NJ · U.S. Citizen

## EDUCATION

**Georgia Institute of Technology**                                                        Atlanta, GA
B.S. in Computer Science, GPA: 3.81                                    *Expected December, 2017*
Systems & Networks Specializations
Elective Coursework: Number Theory, Compilers, Databases

## EXPERIENCE

**Georgia Institute of Technology**                                                        Atlanta, GA
CS 2200 Teaching Assistant, Computer Systems & Networks                             *Fall 2016*

- Conducted in-class demonstrations about operating systems and computer architecture concepts.
- Fielded students' questions, held recitations, and graded assignments.
- Covered: Assembly, Pipelined Processing, CPU Scheduling, Memory Systems, Network Protocols

## PROJECTS

**Travel Planner** (HTML, CSS, Materialize, Python, Flask, MySQL)

- Created a Flask website that interacts with a MySQL database to plan and pay for vacation trips.

**Malloc/Free Algorithm Simulator** (C)

- Developed a simulator of the C programming language's memory allocation algorithms, in C.
- Dynamic allocation and re-allocation implemented using two schemes; address and size ordering.

**Web Data Extractor** (Python, BeautifulSoup, Selenium WebDriver)

- Saved local homeowner association hundreds of dollars in costs by assisting in server backup.
- Automated the downloading of over 900 internal documents from old data server using Python.
- Created physical backups of web data by developing scrapers to save the data to spreadsheets.

## ACTIVITIES

**GreyHat Information Security Club**
President                                                              *August 2016 - Present*

- Gave weekly presentations on security topics to the Georgia Tech community.
- Taught basic skills in cryptanalysis, penetration testing, reverse engineering, and steganography.

Cybersecurity Competition Team Captain                                   *August 2015 - May 2016*

- Led Georgia Tech's cybersecurity CTF competition team over the course of a year.
- Placed 13th out of 1000s of competitors in a national cybersecurity competition (CSAW CTF).
- Authored problems for Georgia Tech's $400 funded cybersecurity competition, GreyH@t CTF.

## SKILLS

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|---|---|
| **Languages** | Java, Python, C, HTML |
| **Frameworks** | JavaFX, Swing, Bootstrap, Materialize, Flask, PyQt, Selenium, BeautifulSoup |
| **Databases** | MySQL, SQLite |
| **Tools** | Linux, Vim, Git, Android Studio, LaTeX |