Siddarth Senthilkumar

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Princeton, NJ · U.S. Citizen

EDUCATION

Georgia Institute of Technology Atlanta, GA
B.S. in Computer Science, GPA: 3.80 *Expected December, 2017*
Specialization: Systems & Networks
Elective Coursework: Number Theory, Compilers

Georgia Tech Lorraine Metz, France
European Study Abroad Program, GPA: 4.00 *Summer 2016*
Coursework: Python, Databases, Statistics

WORK EXPERIENCE

Georgia Institute of Technology Atlanta, GA
— Research Assistant - High Performance Computing *Fall 2016*

- Optimized streaming graph data structures, enabling their use on high end GPUs and CPUs.
- Remodeled dynamic graph structures by limiting system calls and maximizing parallelization.

— Teaching Assistant - Computer Systems & Networks (CS 2200) *Fall 2016*

- Conducted in-class demonstrations about operating systems and computer architecture concepts.
- Created assignments and held recitations, providing all-round for course related activities.
- Covered: Assembly, Pipelined Processing, CPU Scheduling, Memory Systems, Network Protocols

ACTIVITIES

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

- Gave weekly presentations on security topics to 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.

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.
- 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.

SKILLS

Languages	Java, Python, C, HTML
Frameworks	JavaFX, Swing, Bootstrap, Materialize, Flask, PyQt, Selenium, BeautifulSoup
Tools	Linux, Vim, Git