

Siddarth Senthilkumar

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U.S. Citizen

EDUCATION

Georgia Institute of Technology
B.S. in Computer Science, GPA: 3.83
Specialization: Systems & Networks
Elective Coursework: Number Theory, Compilers

Atlanta, GA
Expected December, 2017

Georgia Tech Lorraine
European Study Abroad Program, GPA: 4.00
Coursework: Python, Databases, Statistics

Metz, France
Summer 2016

WORK EXPERIENCE

Booz Allen Hamilton - Dark Labs
— Malware Analysis Intern

Annapolis Junction, MD
Summer 2017

- Analyzed and reverse engineered open-source malware samples.
- Wrote decoders to extract keys, IPs, ports, and domains statically.
- Developed Python scripts to query virus metadata databases such as MISP for use in Maltego.

Georgia Institute of Technology
— Teaching Assistant - Computer Systems & Networks (CS 2200)

Atlanta, GA
Fall 2016 - Present

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

— Research Assistant - High Performance Computing

Fall 2016

- Wrote test-bench code to time triangle counting algorithms on dynamic graph data structures.

PROJECTS

FPGA Pipelined Processor (Verilog)

- Designed a five-stage pipeline for a MIPS-like ISA on an Intel FPGA for a processor design course.
- Ran benchmark assembly code at 120MHz, with fastest completion time in the class.

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

- 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.

LEADERSHIP

GreyHat Information Security Club
— President

August 2016 - May 2017

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

SKILLS

Languages	C, Python, Java, Verilog, HTML
Frameworks	JavaFX, Swing, Bootstrap, Materialize, Flask, PyQt, Selenium, BeautifulSoup
Tools	Linux, Vim, Git, gdb, tmux, zsh, Vagrant, IDA Pro, radare2, Burp Suite, VS Code