Siddarth Senthilkumar

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U.S. Citizen

EDUCATION

Georgia Institute of Technology   Atlanta, GA
B.S. in Computer Science, GPA: 3.83   *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

Booz Allen Hamilton - Dark Labs   Annapolis Junction, MD
— Malware Analysis Intern   *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   Atlanta, GA
— Undergraduate Researcher - Computer Architecture   *Fall 2017 - Present*

- Implementing and testing a RISC-V architecture generated using Chisel on Zync FPGAs.

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

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