Siddarth Senthilkumar

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U.S. Citizen

EDUCATION

Georgia Institute of Technology — Atlanta, GA
B.S. in Computer Science, GPA: 3.84 — *August 2014 - December 2017*
Specialization: Systems & Networks
Elective Coursework: Number Theory, Advanced CompArch

Georgia Tech Lorraine — Metz, France
European Study Abroad Program, GPA: 4.00 — *May 2016 - August 2016*
Coursework: Python, Databases, Statistics

EXPERIENCE

Booz Allen Hamilton — Annapolis Junction, MD
— Reverse Engineering Consultant — *January 2018 - May 2018*

- Researched vulnerabilities in SCADA systems by analyzing firmware updates for the QNX RTOS.
- Reverse engineered FFS3 filesystem and wrote decoder to extract all files and directories from an image.
- Analyzed PowerPC ELFs to exploit weak client-side authentication routines.

— Malware Analysis Intern — *June 2017 - August 2017*

- Developed Python modules to automate malware analyst workflows via Phantom modules.
- Reverse engineered and wrote decoders to extract crypto-keys and protocol info from open malware.

Georgia Institute of Technology — Atlanta, GA
— Teaching Assistant - Computer Systems & Networks — *August 2016 - December 2017*

- 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

— Undergraduate Researcher - Computer Architecture — *August 2017 - December 2017*

- Implemented and tested RISC-V ISA generated using Chisel on Zynq FPGAs.
- Documented the architecture of the Rocket Core RISC-V chip generator and how to run on FPGAs.
- Measured performance of RISC-V matrix multiplication programs using different cache configurations.

LEADERSHIP

GreyHat Information Security Club
— President & CTF Captain — *August 2015 - May 2017*

- Led Georgia Tech team to compete in NYU's CSAW CTF finals, placing 13th in the nation.
- Organized weekly presentations on security topics for the Georgia Tech community.
- Taught basic skills in cryptanalysis, binary exploitation, reverse engineering, and steganography.

AWARDS

- **2nd Place UMBC CTF** - University of Maryland, Baltimore County — *March 2018*
- **10th Place H3 CTF** - GTRI, IBM Security, Home Depot — *November 2017*
- **1st Place HackGT CTF** - HackGT — *October 2017*
- **3rd Place Kaizen CTF** - Booz Allen Hamilton — *June 2017*
- **13th Place CSAW CTF** - NYU Tandon — *October 2015*

SKILLS

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