

Siddarth Senthilkumar

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U.S. Citizen

EDUCATION

University of California, Santa Barbara

M.S. in Computer Science
Specialization: System Security

Santa Barbara, CA
September 2018 - Present

Georgia Institute of Technology

B.S. in Computer Science, GPA: 3.84
Specialization: Systems & Networks
Elective Coursework: Number Theory, Advanced CompArch

Atlanta, GA
August 2014 - December 2017

EXPERIENCE

Cisco Systems, Inc.

— Software Build Team Intern

San Jose, CA
May 2018 - August 2018

- Identified dependency issues affecting build quality for thousands of Cisco engineers around the world.
- Programatically fixed dependency issues by migrating gmake build to new build system called Ninja.
- Reduced parse times from 10 mins to 45 secs, projected savings \$500,000/month in dev hours for Cisco.

Booz Allen Hamilton

— Reverse Engineering Consultant

Annapolis Junction, MD
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 ELF's 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

— Teaching Assistant - Computer Systems & Networks

Atlanta, GA
August 2016 - December 2017

- Conducted in-class demonstrations about operating systems and computer architecture concepts.
- Created course projects and homework, held recitations, and graded exams.
- Covered: Assembly, Pipelined Processing, CPU Scheduling, Memory Systems, Network Protocols

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

- **1st Place UMD CTF** - University of Maryland, College Park *April 2018*
- **10th Place H3 CTF** - GTRI, IBM Security, Home Depot *November 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 (Arch, Debian), Vim, Git, gdb, tmux, zsh, IDA Pro, radare2, Burp Suite, Vagrant