SETH SAWANT

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EDUCATION

University of Illinois at Urbana-Champaign *Fall 2017 - Present*
Bachelor of Science, Computer Engineering GPA: 3.46/4.00
Expected Graduation: Spring 2021
College of Engineering Dean's List Fall 2017, Spring 2020

Relevant Coursework
Computer Systems and Programming, Embedded Systems, Computer Architecture, Digital and Analog
Signal Processing, Algorithms, Applied Parallel Programming, Computer Security, Technical Writing

TECHNICAL SKILLS

Launguages & Skills	C/C++, Python, x86, SystemVerilog, Embedded Systems
Software & Tools	UNIX, Git, Arduino, Wireshark, Ghidra, Fusion 360

EXPERIENCE

Qualcomm August 2021 - Current
Engineer *Boulder, CO*

Qualcomm May 2020 - August 2020
Software Engineering Intern, Modem Common Services *Boulder, CO*

- Created a Qt-based log debugging tool for Qualcomm's Smart Transmit technology using Python
- Leveraged existing Qualcomm APIs to automate binary payload unpacking and PyQt to create high-performance interactive plots, making it easy for users to quickly identify abnormal data in logs
- Collaborated closely with end-user engineers to shape functionality of application to best increase utility and debugging efficiency; noted for speed of feature request turnaround

U.S. Army Combat Capabilities Development Command May 2019 - August 2019
C5ISR Night Vision and Electronic Sensors Directorate Intern *Fort Belvoir, VA*

- Worked with infrared sensor systems of Army's Next Generation Combat Vehicle prototype platforms
- Led team of contracted software engineers in time-critical development of a real time image compression pipeline using C++ and OpenCV, expediting important functionality milestones
- Developed Python-based GUI applications to analyze and log UDP-based sensor activity and system status, drastically decreasing debugging and configuration time of systems in a field setting
- Took initiative by authoring a hardware servicing guide for flawed media conversion equipment, praised by coworkers for both clarity and quality of documentation

Association of Computing Machinery - SIGPwny August 2018 - March 2019
Offensive Security Group Team Member *Champaign, IL*

- Coordinated with University faculty and staff to execute a penetration testing engagement on one of the Computer Science department's largest undergraduate courses
- Used knowledge of web exploitation and network attacks to help assess security of various course-critical systems such as homework autograders, class forums, and attendance monitors
- Learned about intricacies of conducting active information gathering on a live target