

SETH SAWANT

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science, Computer Engineering

Engineering Dean's List

Expected Graduation: Spring 2021

Fall 2017 - Present

Overall GPA: 3.53/4.00

Technical GPA: 3.86/4.00

TECHNICAL SKILLS

Computer Languages

C, C++, Python, x86, HTML

Software & Tools

Linux, Wireshark, Git, Arduino, Ghidra

EXPERIENCE

U.S. Army AFC 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

- Worked with University faculty and staff to carry out 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 the intricacies of conducting active information gathering on a live target

PROJECTS

ESP32 Game Boy Emulator - Created a lightweight 1989 Nintendo Game Boy emulator in C capable of running on a ESP32 system-on-a-chip as a part of a project aiming to replace an internal logic board inside the Game Boy's original hardware

RELEVANT COURSEWORK

ECE 391: Computer Systems Engineering

CS 460: Security Lab

ECE 408: Applied Parallel Programming

CS 225: Data Structures

ACTIVITIES

UIUC Climbing Club

ACM

Illini Drone Racing

IEEE