

School Address:

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Roger Wirkala

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Permanent Address:

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Objective: Summer internship in CS, software development, or cybersecurity.

Education: Worcester Polytechnic Institute (WPI), Worcester MA
BS in Computer Science, Minor in Robotics Engineering, 2020, GPA 3.77
The Rivers School, Weston MA
High School Diploma with Distinction, GPA 3.94/4.0, June 2016
Related Courses: Object-Oriented Design Concepts (Java), Algorithms, Systems Programming Concepts, Machine Org. & Assembly Language, Operating Systems, Software Engineering, and Human Computer Interaction

Skills: **Languages:** Java, C, C++, Python, and Swift (iOS)
Computer: Eclipse, Metasploit, Wireshark, Radare2, Arduino, SolidWorks (Certified Associate), Virtualization (Virtual box & VMware), Microsoft (Word, PowerPoint, Excel, Outlook)
First Aid, CPR, and AED Certified

Projects: **MITRE eCTF**, WPI, 2018
Collaborated on a team to develop secure protocols between ATM Cards and ATMs. Also researched various attacks, both hardware and software oriented.
Attack Lab, WPI, Fall 2017
Reverse engineered various binaries to create exploit strings based on buffer overflow and ROP attacks to gain access and inject malicious code.
Ethical Hacking Independent Study, Rivers, September 2015 – May 2016
Learned about offensive hacking measures and pen testing. Lessons included creating viruses and sniffing packets Wireshark.

Experience: **Intern at Gyroscope Lab:** Summer 2017
Worked on iOS software development. Reversed engineered iOS camera framework to create linear camera sensor with calibration routine, skin tone detection, and color space translation algorithms.

Activities: **Treasurer and Executive Member, Lambda Chi Alpha Fraternity**, 2018 – Present
WPI Outing Club Executive Board, 2017 – Present
WPI Cyber Security Club, 2016 – Present
WPI Stage Band, 2016 – Present, Lead Alto Saxophone and Clarinet
Rivers FTC Robotics Team Captain, 2014 – 2016
Rivers Cyber Patriot Team Leader and Founder, 2013 – 2015