



ETH STACK

STEM SUMMER CAMP

Virtual

In the Eth Stack course, high school students and middle school students will learn Linux Fundamentals; How to run a Linux Operating System; RPA Fundamentals; Hands on UiPath Fundamentals; and Ethical Hacking 101. Ethical hacking in high school students introduces valuable cybersecurity skills in a fun and interesting way that will set you up for a solid foundation.

This Ethical Hacking class for high school students will provide hands-on experience as white hat hackers. Data breaches are only growing and you will be able to learn the basics. Students will not only learn how to set up a network but also how to hack into them. This class will open your eyes to potential security risks as well as how to prevent them in the real world. This will also give students a taste of career opportunities that could be waiting for them if they pursue the subject after High School.

July 26–30
9 AM - Noon
13 Years and up



ETHICAL STACK COURSE TOPICS COVERED:

- Linux 101
- Learn the Linux Operating System
- RPA 101 Fundamentals
- UiPath
- Ethical Hacking 101 Fundamentals

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ABOUT THE

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ETH STACK STEM CAMP

Linux powers 94% of the world's super-computers, most of the servers powering the Internet, the majority of financial trades worldwide and a billion Android devices. In short, Linux is everywhere. It appears in many different architectures, from mainframes to server to desktop to mobile and on a staggeringly wide variety of hardware.

Robotic process automation (RPA) is the use of software with artificial intelligence (AI) and machine learning capabilities to handle high-volume, repeatable tasks that previously required humans to perform. These tasks can include queries, calculations, and maintenance of records and transactions.

In today's world, Ethical Hacking is a key role in keeping the world of technology running. Technology is vulnerable to attacks, and Ethical Hacking ensures that companies and websites are safe.

Students who successfully complete this lesson plan will demonstrate a strong mastery of ethical hacking. They will understand the basics of Linux 101 Fundamentals and how to manage client side attacks, install Ubuntu, navigate commands, create and delete files, and take control of the Linux Operating System.

TOPICS COVERED



ETH STACK COURSE TOPICS COVERED:

- Linux 101 Fundamentals
- Linux - Client Side Attacks + Installing Ubuntu
- Linux - Navigation Commands + Creating & Deleting Files
- Linux ETH - Taking Control of your Linux Operating System + Executing & Terminating Processes
- Linux - The Hackathon



BY THE END OF THE WEEK, WEB PROGRAMMING STUDENTS WILL HAVE GAINED:

- Knowledge of Linux Fundamentals
- Experience with Linux Operating System
- Set up Workspaces in UiPath and RPA Fundamentals
- A Ethical Hacking Fundamentals with a hands on Hackathon

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