

Course project

Teams of 2-3 students (4 member teams only for huge and complex projects)

Topics should be related to one of the previous lectures or near them

Examples:

- Organization of Security: "Development org documents for infosec" or "Development Infosec roadmap for company"
- Pentests: "Pentest of web app ****" or "Pentest of mobile App ***"
The application must be real (from your summer practice or from a store). Applications that are known to be vulnerable will be scored lower.
- Secure Architecture: "Development of secure arch for *** company with threat modelling"
- Developing a library with a secure implementation... *** (crypto, rate limits with different algorithms, ACLs and etc.)
- Virtual pathcing module ... (Envoy, Nginx and etc.)
- An automated tool for collecting info about the target company.

You can make a research:

- "Using of crypto in the standard libs - comparing of encryption speed"
- "Comparing different tools - SAST, DAST, Vulnerability code management systems"
- "Possible hacking of *** protocols"
- etc. (You can make some fun, but connected to infosec)

Result: Report + Short Presentation (for 5 minutes, only key results)