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**CS-305 Software Security**

**3-2 Journal: Reflection**

* **What is your role in solving security concerns as a developer? What might solving security concerns as a developer involve?**
  + As a developer, my role in solving security concerns is first to understand that when I write the code that creates a program I am also responsible for ensuring that there are no vulnerabilities in the code while in the development process. To understand this concept, I need to be up to date on threats related to my project and ensure that these threats are not an issue. I need to make sure that in any new concept in battling vulnerabilities in codes, I have all the necessary data and make sure as I work on my code that I am considering all possible scenarios.
* **Where does security fall within the software stack and development life cycle?**
  + Like other parts, security doesn’t have a section in the process; it is more a keeping in mind the risks that can happen when the program is in use and making sure that it is taken care of as the project develops.
* **How might you add security measures to transform a DevOps pipeline into a DevSecOps pipeline?**
  + Ensuring in every development phase that security parameters are always verified.
  + Ensure that there are credential controls in place.
  + Make sure there are constant security updates and system checks.
  + Ensure there is some vulnerability management.
  + Making sure the client project contains anti-MITM processes.
* **The article suggests creating and following a plan to secure the entire DevOps life cycle. What is included in the suggested plan, and would you recommend following it?**
  + According to the plan, there must be a high-level rapid risk assessment, and the risk needs to be quantified and include an evaluation of all threat models for security requirements to be implemented. Using web tools, we can secure the DevOps Lifecycle. Moreover, we need to ensure that API keys are protected, as well as any user keys or service accounts that will contain privileges.