## **Defense in Depth Table for Application Security**

The goal is for you to fill this table out with your team. Each section may contain people, process or technology for deploying defense in depth. For a more exhaustive list of possible controls to add to your defense in depth table see the <a href="NIST Cybersecurity Framework">NIST Cybersecurity Framework</a>

DEFENSE LAYER	SECURITY CONTROLS				
Create Secure Applications  • Controls that help developers create secure code	Education, Awareness, and Secure Code Training.   Code reviews Annual secure code training Communities of practice First-class events Office hours				
Analyze Applications     Assess each code change for new and existing vulnerabilities	Static Analysis  Automatically can our source code for known vulnerabilities  Rails: Brakeman Elixir: sobelow PHP: Veracode, semgrep Python: Bandit	Dynamic Analysis  Automatically examine our live running application for vulnerabilities  • Rapid7	Third-party Code Analysis  Tool(s) scan our third- party libraries for known vulnerabilities  • dependabot • safety • snyk	Manual Analysis  Testing application for issues that cannot be identified automatically:  • Abuse of functionality vulnerabilities • Privilege escalation vulnerabilities • Business logic flaws	

				Uses manual tools like burp suite, secure code checklists and browser plugins.		
	External Code & Architecture Reviews					
Protect Applications  Detect and block attacks occurring against deployed code	Web Application Firewall					
Response Processes  Identify and eliminate any successful attacks against cmm assets	<ul> <li>Incident response procedure</li> <li>SIEM logging &amp; monitoring</li> </ul>					