



# SECURE CODE WARRIOR

The fastest and easiest way to improve  
your application security program.

**Secure your code, from the start.**

Secure Code Warrior adds a powerful layer of cyber protection that is simple, scalable and positive. Our platform and tools have been designed for developers to be fun, competitive and engaging.

Companies can scale secure coding excellence across their organization as individuals and teams easily build and verify their application security skills, gain real-time security advice and monitor skill development.

Whether undertaking hands-on training, competing in team or company-wide tournaments, being aided by a real-time coaching plug-in, or completing assessments, Secure Code Warrior’s unique approach embeds security into the DNA of developers.

Secure Code Warrior helps developers to:

- Build their skills online with hands-on exercises
- Receive real-time advice through IDE coaching plug-in tools
- Verify their skillset through online assessments and certifications
- Monitor and measure their skill improvements and ROI

## Achieve faster and more secure product development

The more your teams use the tools in our platform, the better they will become at coding securely and the less time and money you will spend fixing bugs.

- Embed security from the start, saving time, money and resources in the software development lifecycle
- Add a powerful and measurable layer of cyber protection for in-house or outsourced developers

## Defend yourself with security-conscious developers

In a world that depends on software, developers need to be the first line of defense for any company’s security strategy.

- Mitigate the secure developer skills shortage
- Equip your developers with training and tools to succeed

## Build a positive security culture

Building a positive security culture reduces conflict between security and development teams and lets your developers focus their efforts on faster upgrades and creating competitive features.

- Train and equip developers to think and act with a security mindset
- Make learning about security fun, competitive and engaging

OUR PROVEN SUITE OF SECURE CODING TOOLS SIT WITHIN ONE POWERFUL PLATFORM, THAT MOVES THE FOCUS FROM REACTION TO PREVENTION.



### TRAINING

- Self-paced, online, scalable learning
- Covers the OWASP Top 10 and other common security weaknesses
- Focus on specific, relevant security weaknesses
- Multiple languages and frameworks



### LEARNING

- Video training resources for specific vulnerabilities
- Builds awareness and general knowledge



### METRICS

- Know security maturity at a developer and team level
- Understand strengths and weaknesses
- Quantify success



### COACHING PLUG-IN

- Real-time coaching plug-in
- Acts like a spell-checker for security while developers are coding
- Customized to company specific security guidelines
- Links back to training resources



### TOURNAMENTS

- Makes it fun!
- Gets people involved
- Builds awareness
- Identifies security champions



### ASSESSMENTS

- Customizable online assessments
- Verifies skills - identification and remediation
- External contractor quality assurance
- Baseline certification

## WHAT OUR CUSTOMERS SAY

"It's the most awesome security training product I have ever come across."

**Application Security Manager, Banking & Finance**

"A lot of our developers find that they're using it for an extended period of time without even noticing."

**Director - IT Applications and Systems Security, Telecommunications**

"Secure Code Warrior has enabled us to train our developers in secure coding practices, across multiple languages. We also use it to assess external vendors determine the extent they will be allowed to code with us."

**CISO, Technology**

"We get good insight into how developers are tracking, including statistics on their strengths and weaknesses."

**Information Security Specialist, Banking & Finance**

## ABOUT SECURE CODE WARRIOR

Secure Code Warrior is a global security company that makes software development better and more secure. Our vision is to empower developers to be the first line of defense in their organization by making security highly visible and providing them with the skills and tools to write secure code from the beginning. Our powerful platform moves the focus from reaction to prevention, training and equipping developers to think and act with a security mindset as they build and verify their skills, gain real-time advice and monitor skill development. Our customers include financial institutions, telecommunications providers and global technology companies in Europe, North America and Asia Pacific.

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# Master secure coding with Sensei



Smart companies recognise that effective application security programs require developers to be their first line of defence. Secure Code Warrior's Sensei is a coaching master that empowers developers to write secure code faster and more consistently, without needing them to become security experts. Working in real-time, Sensei guides developers as they write, embedding security into the software development lifecycle, from the first line of code.

## SECURE YOUR CODE FROM THE START WITH SENSEI

Sensei is an easy-to-install plug-in that works in the developer's Integrated Development Environment (IDE) to guide them in real-time to write secure code. In the same way a spell-checker assists writers, Sensei helps coders to adhere to secure coding guidelines and instantly transforms 'bad code' into 'good code'. As well as real-time fixes, Sensei helps developers learn how to avoid the same problem in the future by linking directly to Secure Code Warrior's in-depth training on that particular issue.

Sensei validates code in real-time against a configurable set of authorised rules and alerts the author in milliseconds when they write code that does not align with the company's secure coding guidelines. Sensei detects violations like a spelling and grammar checker in a word processor and offers dozens of instant quick-fixes for common vulnerabilities.

```
public static void newLogin(UserBean b, String ts) {
    try{
        //Connect to database
        Connection connection = ConnectionManager.getConnection();
        Statement s = connection.createStatement();
        s.executeUpdate( sql: "UPDATE login_time SET time='"+ ts + "' WHERE email='"+ b.getEmail() + "'");
        // Violates a coding guideline on secure data retrieval more... (#8F1)
        connection.close();
    }
}
```

  

```
public static void newLogin(UserBean b, String ts) {
    try{
        //Connect to database
        Connection connection = ConnectionManager.getConnection();
        Statement s = connection.createStatement();
        s.executeUpdate( sql: "UPDATE login_time SET time='"+ ts + "' WHERE email='"+ b.getEmail() + "'");
        s.close();
    }
}
```

### EARLY ADOPTER FEEDBACK

"Sensei reduces the likelihood of security problems and clearly explains why something is potentially dangerous."

### EARLY ADOPTER FEEDBACK

"The impact in required time when actively using Sensei is minimal, but results in much safer code."

**PROACTIVE** before your code reaches the repository

**IMMEDIATE** feedback loop that focuses on fixing issues before they are a problem

**EARLY** works before the code is checked into source control

**FLEXIBLE** allows in-house rules to be written

**PERSONAL** sits in developers' IDE and can change code and present sample code

**SCALABLE** provides quality secure coding guidance for every developer, every day

**WISE** backed by a wealth of bite-sized up to date learning materials in the Secure Code Warrior platform

## SENSEI IMPROVES SECURE CODING PRACTICES, HELPING ORGANISATIONS TO BE MORE AGILE AND COST EFFECTIVE

- Plugs into a developer's IDE to instantly monitor, measure and correct security mistakes
- Keeps everything on the developer's system, no code is exported
- Automatically transforms 'bad code' into 'good code'
- Context aware and provides the developer with secure code options, so they can code faster
- Customisable through an intuitive GUI to support specific company security guidelines
- Links straight into Secure Code Warrior's innovative training platform so developers can take in-depth training on specific problems if required
- Helps measure the quality of code and coders, producing real-time data about vulnerabilities identified, resolved and time to resolve

### EARLY ADOPTER FEEDBACK

"Sensei gives the shortest possible feedback cycle. Short feedback cycles equals cost savings and more reliable releases."

### EARLY ADOPTER FEEDBACK

"The code Sensei suggests for remediation is fantastic!"

### Sensei® by Secure Code Warrior® 13 sensei errors

- ▶ Concurrency Issues: Avoid Concurrency Issues with Date 1 sensei error
- ▶ CSRF: Add CSRF Token to forms 1 sensei error
- ▶ Information Leakage: Proper Errorhandling: Print StackTrace 1 sensei error
- ▶ Injection: Avoid SQL Injection: Use Parameterized Queries 2 sensei errors
- ▶ Injection: Avoid XML Injection: Use setFeature 1 sensei error
- ▶ Secure Random number generation 1 sensei error
- ▶ XML External Entities: DocumentBuilderFactory setExpandEntityReferences: to false 1 sensei error
- ▶ XML External Entities: DocumentBuilderFactory setFeature: disallow-doctype-decl 1 sensei error
- ▶ XML External Entities: DocumentBuilderFactory setFeature: external-parameter-entities should be allowed 1 sensei error
- ▶ XML External Entities: DocumentBuilderFactory setFeature: load-external-dtd 1 sensei error
- ▶ XML External Entities: DocumentBuilderFactory setXIncludeAware 1 sensei error
- ▶ XML External Entities: implement a customized Resolver 1 sensei error

## KNOWLEDGE IS YOUR WEAPON FOR FAST, SECURE CODE

With the inclusion of Sensei, Secure Code Warrior's platform is the smartest and easiest way for companies to improve their application security, helping them achieve faster and more secure product development, building a more positive security culture and defending themselves with security-conscious developers. Sensei helps reinforce what is gained from the learning platform and apply it to the developer's code base.

In its first release, Sensei is available for IntelliJ, Eclipse, Visual Studio and Android Studio and comes with default coding guidelines for Java Enterprise, Java Spring, C# MVC and Android JAVA with more to follow.

For more information, visit [securecodewarrior.com](https://securecodewarrior.com).

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