



# "The socio-technicality of digital societies"

## Re Thinking The Developer's Role In **Securing** Our Digital Future

### **The New Artisans**

*Andy Knapp: VP International, Secure Code Warrior*



# Software Is Ubiquitous

A diagram illustrating the relationship between AI, software, and the world. At the top, the letters 'AI' are positioned above a large, dark green, dinosaur-like head with its mouth open. Below this head is a yellow fish-like shape with its mouth open, labeled 'Software'. To the right of the yellow shape is a small red fish-like shape labeled 'World'. The 'AI' head is positioned as if it is about to eat the 'Software' fish, and the 'Software' fish is positioned as if it is about to eat the 'World' fish.

**AI**

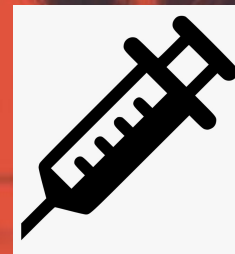
**Software**

**World**

**“Software is eating the world”**  
Andreessen Horowitz, HP (2011)

**“Software is eating the world, but AI is going to eat software”**  
Jensen Huang, Nvidia CEO (2017)

# Developers Intersect Almost Every Aspect Of Our Lives.



***“.....software will also become more accessible to everyone, and in many cases experience or baseline knowledge in this area will be a necessary skill set for many jobs where it isn’t required today,”***

*Christian Beedgen, co-founder and CTO at Sumo Logic.*

**Developers. The New Artisans.**

**Millions of developers that don't  
work for you wrote your code.**

Poor code is exposing organizations, supply chains and countries to increasing threats and costs.

7

It is getting bigger...

**69%** INCREASE in Cyber Attacks  
Despite ever-increasing application security budgets, testing platforms, tools and penetration test.

Source: [Akamai Q3 State of the Internet Security Report](#)

It is not going away...

**#1** OWASP Top 10  
Web App security risk is more than 20 years old!

Source: [OWASP Top 10](#)

**1/4** of all data breaches last year were caused by human error

Source: [NTT Ltd's 2020 Global Network Insights Report](#)

It costs a lot...

**\$3.9M** average total cost of a data breach  
**USD**

Source: [2020 Cost of a Data Breach report from the Ponemon Institute and IBM](#)



**“We all think we are better drivers than we are”**



# Education & Ownership

# **There's No Universally Recognised Accreditation In Secure Coding.**

**If You Don't Train Them.  
Don't Blame Them.**



# Developers Don't "Own" Security.



# Make It Tangible & Create Career Value

From Scooter Through To Commercial Pilot Licence

# Make It Fun

Secure Code Warrior  
portal-game.sit.nonprod.securecodewarrior.com/#/tournaments/517eaa07f618140006e95909/player-home

Home Tournaments Training Courses Assessments Labs Server Resources Metrics Administration Help

**Battle Royale**  
Tournament Progress  
Accuracy  
0 points  
Time Remaining

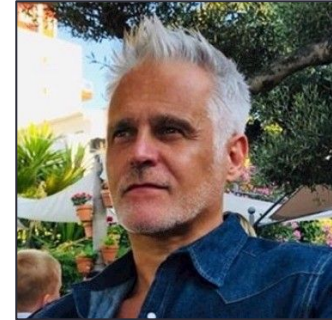
**Leaders**  
Pieter Danhieux 0 points

**Active Missions**

- Level 1: A Hacker from China is attacking the **Hot Deals** application
- Level 2: A state-sponsored adversary from Malta is attacking the **Solar Electric** application
- Level 3: A Hacker from Italy is attacking the **Ibiza Bank** application
- Level 4: A state-sponsored adversary from Niger is attacking the **Purple Hosting** application
- Level 5: A state-sponsored adversary from United States is attacking the **Electrical Co.** application
- Level 6: A Hacker from Greenland is attacking the **Electrical Co.** application
- Level 7: A Hacker from Morocco is attacking the **Sydney Bank** application
- Level 8: A Hacktivist from Cameroon is attacking the **Solar Electric** application
- Bonus Level:** A Hacktivist from Algeria is attacking the **Solar Electric** application

This map is based on public domain map data available from [OpenStreetMap](#) and [Natural Earth](#).

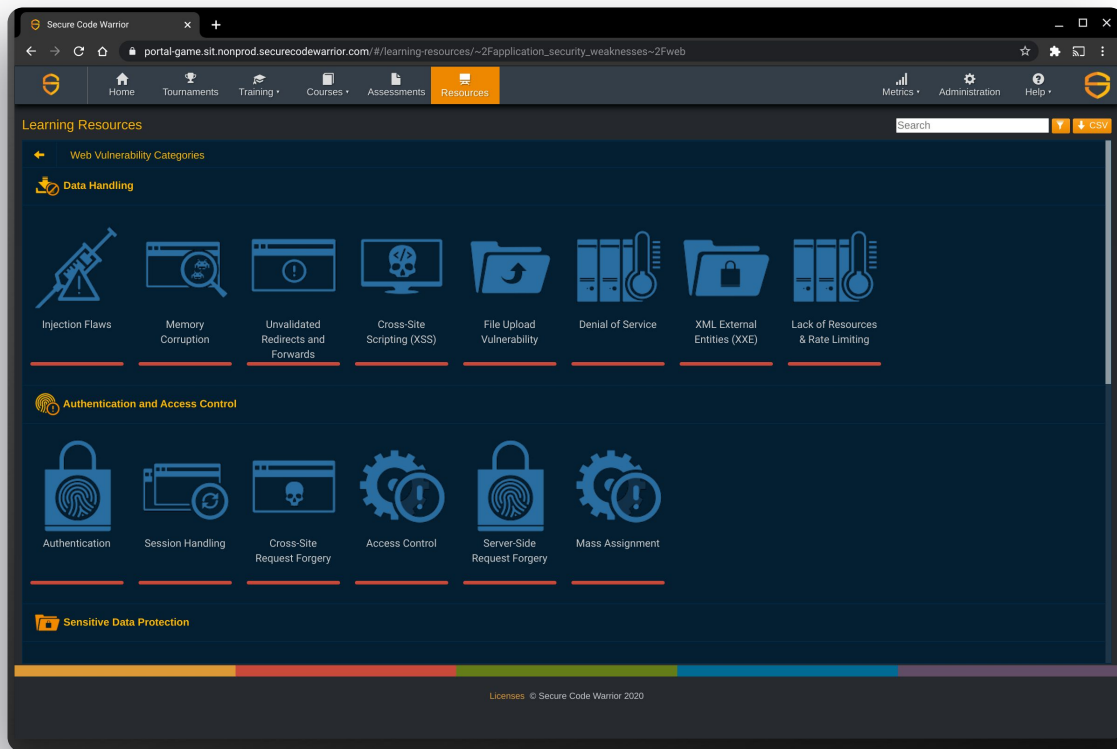
Licenses © Secure Code Warrior 2020



aknapp@securecodewarrior.com

# At School, University and At Work

# Master The Craft



Securely

Create

Contribute

Consume

# My Prediction: Developers Will “Own” Security



# Let's Create Career Value For Developers Who Can Code Securely

