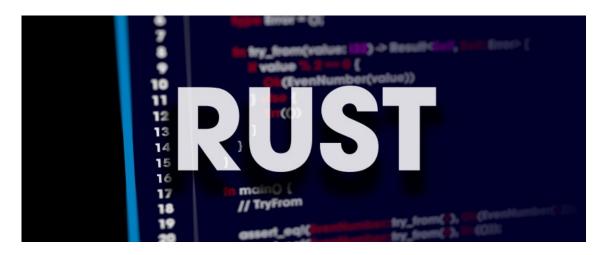
# **SEI** Bulletin

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# **Rust Security Explored**

**February 1, 2023**—Two recent SEI Blog posts assess the security, vulnerability, and maturity of the Rust programming language. In *Rust Software Security: A Current State Assessment* and *Rust Vulnerability Analysis and Maturity Challenges*, SEI CERT Division researchers Joseph Sible, David Svoboda, and Garret Wassermann explore the promise of this popular language.

"While the memory safety and security features of the Rust programming language can be effective in many situations, Rust's compiler is very particular on what constitutes good software design practices," write Wassermann and Svoboda in the second post. "Whenever design assumptions disagree with real-world data and assumptions, there is the possibility of security vulnerabilities—and malicious software that can take advantage of those vulnerabilities."

Read Rust Software Security: A Current State Assessment »

Read Rust Vulnerability Analysis and Maturity Challenges »



#### ISHPI AIS Division to Receive IEEE CS/SEI Humphrey Software Quality Award

The group's decades of dedication to software quality earned it the 2023 award.

#### DevSecOps Platform-Independent Model Receives Major Update

New features bolster cybersecurity, personnel modeling, and DevSecOps flow.

#### See more news »



#### Software Modeling: What to Model and Why

John McGregor and Sholom Cohen describe modeling and analysis activities intended to achieve robust design, define the modeling chain, and effect evolution from specification to implementation.

#### Rust Vulnerability Analysis and Maturity Challenges

Garret Wassermann and David Svoboda explore tools for understanding vulnerabilities in the Rust programming language as well as the maturity of the Rust software ecosystem.

#### Mothra: Network Situational Awareness at Scale

Daniel Ruef introduces the SEI's Mothra network situational awareness and security tool and describes research on its improvements for large-scale environments and effectiveness at "cloud scale."

#### See more blogs »



## <u>Latest Podcasts</u>

#### Securing Open Source Software in the DoD

Scott Hissam talks with Linda Parker Gates about free and open source

software (FOSS) in the DoD, building on insights from a workshop for producers and consumers of FOSS for DoD systems.

#### A Model-Based Tool for Designing Safety-Critical Systems

Sam Procter and Lutz Wrage discuss with Suzanne Miller the Guided Architecture Trade Space Explorer (GATSE), a new SEI-developed model-based tool to help with the design of safety-critical systems.

#### Managing Developer Velocity and System Security with DevSecOps

Alejandro Gomez talks with Suzanne Miller about how his team explored—and eventually resolved—the two competing forces of developer velocity and cybersecurity enforcement by implementing DevSecOps.

#### See more podcasts »



#### Zero Trust Industry Day 2022: Areas of Future Research

This paper describes the future research discussed at the 2022 Zero Trust Industry Day event.

#### **Getting Started with ACE/PoPs**

This fact sheet helps your organization prepare to participate in the ACE/PoPs pilot program and set your expectations.

#### CERT Systems Team: Utilizing a Holistic Project Lifecycle Approach

This informational sheet describes how the CERT Systems Team uses a holistic project lifecycle approach to balance risk exposure with operational effectiveness.

### <u>See more publications »</u>



#### <u>Does Your DevSecOps Pipeline Only Function as Intended?</u>

In this webcast, Tim Chick discusses how a DevSecOps model can be built using model-based systems engineering.

#### Finding Your Way with Software Engineering Buzzwords

In this webcast, Hasan Yasar discusses the new technologies and buzzwords that are required to implement a complete software delivery pipeline.



### Addressing Supply Chain Risk and Resilience for Software-Reliant Systems,

February 21

In this webcast, Carol Woody and Charles Wallen discuss the Acquisition Security Framework (ASF) and how the ASF provides a roadmap to help organizations build security and resilience into a system.

#### <u>DevSecOps Days Pittsburgh 2023</u>, May 11

DevSecOps Days Pittsburgh 2023 will be held virtually by the Software Engineering Institute on May 11.

#### See more events »



#### Cybersecurity Oversight for the Business Executive

March 14-15, 2023 (SEI, Pittsburgh, Pa.)

## <u>Insider Threat Analyst</u>

May 2-4, 2023 (SEI, Pittsburgh, Pa.)

#### See more courses »



<u>Associate Insider Risk Engineer</u>

#### **All current opportunities »**

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