

# SEI Bulletin

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## DevSecOps Days Pittsburgh 2022 Program Announced

**April 13, 2022** — DevSecOps Days 2022, a series of three free, virtual conferences about integrating security into DevOps practices, has announced the [program and keynote speakers](#) for its April 27 event. The conference will feature talks on security in the supply chain, organizational security culture building, chaos security engineering, using pipelines in highly regulated environments, linking architecture best practices with DevSecOps initiatives, and more.

The keynote speakers will be Chris Hughes, co-founder and chief information security officer of Aquia, Inc., and Bryan Finster, a value stream architect with Defense Unicorns.

[Read more »](#)

[Register for DevSecOps Days Pittsburgh 2022 »](#)

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### [International Conference on Software and Systems Processes 2022 Opens Registration and Announces Program](#)

The conference will feature keynote speakers Ita Richardson of the University of Limerick, Grady Booch of IBM, and Tom Longstaff of the SEI.

### [2012 Technical Debt Paper Co-authored by SEI's Nord and Ozkaya Wins "Most Influential" Award](#)

The International Conference on Software Architecture praised the 2012 paper on architectural technical debt by Rod Nord and Ipek Ozkaya, who still innovate in this area.

### [SEI Launches Mothra for Big-Data Network Flow Analysis](#)

The open source Mothra libraries enable big-data analysis engine Apache Spark to process network flow information.

[\*\*See more news »\*\*](#)

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 **Latest Blogs**

### [Using Machine Learning to Increase the Fidelity of Non-Player Characters in Training Simulations](#)

This post describes the use of machine-learning modeling and software tools to create decision-making preferences that make simulated non-player characters more realistic.

### [Internet-of-Things \(IoT\) Security at the Edge](#)

Sebastián Echeverría and Grace Lewis discuss challenges for using IoT devices at the edge, as well as several approaches to IoT security at the edge.

### [Creating a Proposal for Virtual Prototyping in 7 Steps](#)

Douglass Post describes how engineers and scientists can create a compelling proposal for a virtual prototyping program, especially the key software component.

[\*\*See more blogs »\*\*](#)



## Latest Podcasts

### [Model-Based Systems Engineering Meets DevSecOps](#)

Jerome Hugues and Joe Yankel discuss ModDevOps, an extension of DevSecOps that embraces model-based systems engineering (MBSE) practices and technology.

### [Incorporating Supply Chain Risk and DevSecOps Into a Cybersecurity Strategy](#)

Carol Woody talks with Suzanne Miller about supply-chain issues and the planning needed to integrate software from the supply chain into operational environments.

### [Software and Systems Collaboration in the Era of Smart Systems](#)

SEI Director Paul Nielsen talks with principal researcher Suzanne Miller about how the advent of smart systems has led to a growing need for effective collaboration between the disciplines of systems engineering and software engineering.

**[See more podcasts »](#)**

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## Latest Publications

### [Industry's Cry for Tools That Support Large-Scale Refactoring](#)

This paper introduces an industry survey that assessed which tools developers use in large-scale refactoring efforts and how well those tools support refactoring.

### [Augur: A Step Towards Realistic Drift Detection in Production ML Systems](#)

The toolset and experiments reported in this paper provide an initial demonstration of drift behavior analysis, metrics and thresholds, and libraries for drift detection.

### [Extensibility](#)

This report summarizes how to systematically analyze a software architecture with respect to a quality attribute requirement for extensibility.

[See more publications »](#)

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## Latest Videos

### [Teaming Data Science and Causal Inference](#)

Shane McGraw interviews Bob Stoddard, SEMA team lead, about how data scientists joining his group of technical professionals and researchers will make an impact on the U.S. Department of Defense through data-driven decision solutions.

### [Ask Us Anything: Zero Trust Edition](#)

SEI CERT Division Director Greg Touhill and Dr. Chase Cunningham, chief strategy officer at Ericom Software, answer questions and discuss what you need to implement a zero trust strategy.

### [Engineering Tactical and AI-Enabled Systems](#)

Grace Lewis and Shane McGraw discuss how the SEI is applying research, through its highly successful Tactical and AI-Enabled Systems (TAS) initiative, to develop foundational principles, innovative solutions, and best practices.

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## Upcoming Events

Webcast - [Developing Models to Support DoD Technical Reviews](#), April 26  
Julie Cohen, Rob Wojcik, and Linda Parker Gates discuss guidelines that contractors can use to develop models to support System Engineering Technical Reviews.

### [DevSecOps Days 2022 Pittsburgh](#), April 27

This free, virtual event gives you the opportunity to elevate how you integrate security into your DevOps practices and transform your DevSecOps journey.

### [AADL/ACVIP User Days 2022](#), June 2

Speakers at this free forum will present the latest on the Architecture

Analysis and Design Language (AADL), the Architecture-Centric Virtual Integration Process (ACVIP), and associated tools.

[International Conference on Software and Systems Processes 2022](#), May 19-20

This conference gathers researchers and practitioners to share about software and system processes and global software engineering.

**Note:** The SEI is evaluating all upcoming courses, conferences, and events case-by-case in light of COVID-19 developments. Check individual event pages for the latest information.

[See more events »](#)

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## [Upcoming Training](#)

[Design Guidelines and Patterns for Microservices](#)

May 2-5, 2022 (SEI, Live Online)

[Insider Threat Analyst](#)

May 3-5, 2022 (SEI, Live Online)

[Managing Computer Security Incident Response Teams](#)

May 10-12, 2022 (SEI, Live Online)

**Note:** The SEI is evaluating all upcoming courses, conferences, and events case-by-case in light of COVID-19 developments. Check individual training pages for the latest information. You may also contact us at [courseregistration@sei.cmu.edu](mailto:courseregistration@sei.cmu.edu) or +1-412-268-7388.

[See more courses, including live-online and eLearning offerings »](#)

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## [Employment Opportunities](#)

[Technical Director - Head of AI Engineering](#)

[Technical Director - AI for Mission](#)

[DevOps Engineer](#)

[Senior System Designer](#)

[\*\*All current opportunities »\*\*](#)

**Carnegie Mellon University**  
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