# **Salvatore Skare**

DevSecOps Engineer, Security Researcher

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#### About me .

I am currently a DevSecOps Engineer with 8 years of professional experience in software development, and over 13 years of experience writing code. Throughout my academic career, my interest was in machine learning, with a particular interest in reinforcement learning and robotics. For the last 4 years, my focus has been on security, in both a research and DevOps capacity. I have a strong love for learning and creative problem solving.

## Technologies I know \_\_\_\_

- Programming languages: Python, C/C++, C#, JavaScript/TypeScript, Java, Bash, PHP, Prolog, Scheme
- AWS Services: EC2, ECS, EKS, S3, CloudFormation, WAF, Security Hub, Lambda, Fargate
- Linux: Shell, Virtualization, Network and Server Administration, Distros: Red Hat, Debian, Ubuntu, Proxmox, Arch
- Machine Learning: TensorFlow, SciPy, Decision Trees, SVM, DNN, CNN, RNN, GAN models.
- **Tools:** Git, Docker, CI/CD (GitHub, GitLab, Azure DevOps), Metasploit, Kubernetes, Wireshark, SQL (MSSQL, sqlite, MariaDB, Post-greSQL)
- Embedded: ARM Linux, AVR Microcontrollers, ESP8266, Circuit Design and Fabrication, Robotics, FreeRTOS

### Professional experience \_\_\_\_

Trane Technologies, DevSecOps Engineer	La Crosse, WI
dded automated SAST scans and code coverage to existing CI/CD pipelines, improving overall security nd developer experience.	rity Nov 2023 – Present
<ul> <li>In charge of finding and patching vulnerabilities in existing application code and infrastructure, as wel making recommendations to further drive the company's cybersecurity goals.</li> </ul>	ll as
<ul> <li>Designed a serverless cloud compute environment using AWS services to run building energy usage simulations with vast parallelization.</li> <li>Assisted with gathering findings for cybersecuritry audits, such as SOC2 and US Federal Self Attestation.</li> </ul>	im-
	ın.
GrammaTech, Security Research Engineer	Ithica, NY
<ul> <li>Helped develop the state-of-the-art ARTCAT 2 application runtime monitoring and response tool, incl ing adding new language features to the Tiffin 2 policy language and compiler and new responses for reasoning engine.</li> </ul>	
<ul> <li>Worked on the DDISASM Z disassembler and related tools for automated analysis and hardening of bir ries and firmware images.</li> </ul>	ina-
• Implemented a fast and robust machine learning solution for test-driven source code reduction at sca	le.
<ul> <li>Created CI/CD pipelines for automated testing of binary-rewriting algorithms.</li> </ul>	
University of Wisconsin - La Crosse, Full Stack Web Developer	La Crosse, WI
<ul> <li>In charge of maintaining and adding features to uwlax.edu  , as well as internal web-based tools for fact and students.</li> </ul>	ulty Sep 2016 – Dec 2021
• Built a blogging plugin for Optimizely EpiServer with a JavaScript based templating engine.	
• Designed and launched an interactive online graduation experience during COVID-19 in 2 months.	
• Created a custom container-based system monitoring tool using a Flask API and an Angular front-end.	
Education	
BS University of Wisconsin - La Crosse, Computer Science	Sept 2016 – Dec
Minor in Physics with an emphasis in Astronomy.	2019
<ul> <li>Awarded the Dean's Distinguished Fellow's grant in 201.8</li> </ul>	
<ul> <li>Presented research at the 2019 Midwest Instruction and Computer Symposium and the 2019 tional Conference of Undergraduate Research.</li> </ul>	Na-
PhD University of Wisconsin - Madison, Computer Science	Sept 2020 – May
(incom- • Completed graduate coursework pertaining to machine learning and program synthesis/repair	ir. 2021
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**plete)** • TA'd the Computer Architecture introduction course with over 500 students.