Dustin DE MEGLIO
Computer Engineer | Information Security

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I am an Information Security enthusiast with broad previous experience specialized in translating security requirements into action and everyday language.

☰ SKILLS AND COMPETENCIES

Programming	**Go**, **Rust**, **Python**, **C/C++**, SQL, Solidity
Frameworks and tools	Kubernetes, Cloud-native, OpenAI, Flutter, Git
Other concepts	Cryptography, SIEM (Elastic Search, Prometheus, Grafana, Datadog), Cloud (GCP, IONOS, AWS), Security Certifications and Compliance (ISO 27001, GDPR, BAIT, MaRisk, IT Grundschutz), Forensics and Incident Response, Web3 (Solidity)

💼 PROFESSIONAL EXPERIENCE

November 2021 – Present

Senior Security Engineer | Upvest GmbH, BERLIN, Berlin, Germany
- Established and scaled the security engineering team from 2 to 6 members within 1.5 years in a regulated environment.
- Led the implementation of a comprehensive security framework across 10 teams, enhancing visibility into security risks. Included defining security's place in the design phase, running security workshops and architecture reviews, and defining security requirements.
- Pioneered security engineering, launching a champion program with 15 members and achieving compliance readiness with 0 high or critical findings in audits.
- Conducted vendor assessments, ensuring a robust security posture for Upvest and partners by integrating vendors based on modern security practices.
- Enhanced DevSecOps by integrating automated security testing, resulting in a significant reduction in application vulnerabilities from over 40 to single digits.
- Implemented automated methods for adherence to standards (ISO 27001, SOC2, BAIT), reducing severity of open findings and preparing for audits.

`Cloud(Google)` `GDPR` `Security Architecture` `Git` `Security Engineering` `Microservices` `Compliance` `Go`

March 2019 – October 2021

Information/Application Security Analyst | IONOS Cloud SE, BERLIN, Berlin, Germany
- Conducted penetration testing on physical infrastructure and applications, addressing new exploits and CVEs proactively.
- Led external penetration testing, achieving an 80% improvement in critical vulnerability resolution time compared to the previous year.
- Developed and presented threat models for current and new projects, contributing to increased security awareness and over 100 additional automated security unit tests.
- Ensured GDPR compliance, reviewed projects, and implemented technical measures. Prepared projects for ISO 27001 audit, resulting in successful certification without remedial findings.
- Authored developer guidelines on secure coding practices to foster a culture of security awareness.
- Implemented and maintained SAST/DAST tools, leading to a significant decrease in post-deployment security issues.

`Cloud(IONOS)` `GDPR` `ISO27k1` `IT Grundschutz` `Pen Testing` `Git` `SIEM` `Go` `Python`

November 2017 – February 2019

Computer Engineer (Working Student) | Keepsafe Gmbh, BERLIN, Berlin, Germany
- Developed a Python script to consolidate and analyze app interaction analytics across multiple SIEM and metric sources, resulting in a 200% improvement in weekly analysis efficiency.
- Acted as an internal "Bug Hunter" and Security Advocate, addressing an average of 3 security bugs per week, enhancing overall system security.
- Automated documentation generation for a key project, improving transparency and reducing documentation time to almost zero. Received positive feedback during internal audits.
- Designed and implemented a distributed canary system to proactively detect VPN slowdowns, leading to a 90% reduction in customer-reported VPN-related issues.

`Python` `Ruby` `JavaScript` `SIEM` `Cloud(AWS)` `DevOps` `Mobile`

August 2016 August 2017	**Computer Engineering Consultant | RAI Services, Chantilly, Virginia, USA** › Implemented open-source projects and devised plans for secure communication patterns in Government offices, reducing contract spending on bespoke development. › Led a project to design flexible non-persistent virtual environments for sandboxing, enhancing security measures and receiving positive feedback for its effectiveness. › Documented SOPs for secure mobile-to-desktop communication, resulting in reduced potential security risks and improved communication protocol efficiency. Mobile Linux Python Java Security Analysis
July 2013 August 2016	**Security Engineer/Analyst | RCT Systems, Inc, Chantilly, Virginia, USA** › Conducted security evaluations of client applications using DREAD principles, uncovering previously unknown security risks. › Authored comprehensive assessments of products and technologies, aiding informed decision-making for technology adoption. › Produced detailed incident response reports, leading to a 50% decrease in the mean time to resolution for security incidents. › Led reverse engineering efforts on client applications, preventing potential security breaches and achieving a 20% reduction in vulnerabilities. › Formulated strategies for secure mobile device use in network workflows, increasing mobile device security compliance and enhancing network robustness. › Served as lead mentor for new analysts, significantly reducing onboarding time and improving overall team efficiency. Mobile (Android) Reverse Engineering Mentorship Incident Response Pentesting Java Windows Security Analysis DREAD
May 2009 July 2013	**Computer Engineer | U.S. Department of Defense, Washington, District of Columbia, USA** › Utilized wireless and packet analysis for threat categorization and identification of attack vectors, improving early detection and prevention of network security threats. › Employed Ida Pro and reverse engineering to discover bugs and prevent unintended code execution. › Developed a Python program to measure the distance from 2.4GHz devices, enhancing situational awareness for soldiers in warzones and improving network security. › Created an error handling and message passing algorithm for GNU Radio, contributing to increased stability and reliability of the GNU Radio system. Python Java Reverse Engineering Software Defined Radio Network Programming Security Analysis Network Analysis

🌐 LANGUAGES

English ●●●●●
German ●●●○○
Italian ●○○○○

➕ PERSONAL TRAITS

› Driven
› Autonomous
› Team Player

🎓 EDUCATION

2020	Master of Science in Cyber Security, Brandenburg Technical University (Cottbus, Brandenburg, Germany)
2011	Bachelors of Science in Computer Science and Political Science, University of Pittsburgh (Pittsburgh, USA)

💻 PROJECTS

Personal Site

🔗 https://dustin.demegl.io

Creating as a "web business card", with a specific focus on being purpose built and data-*small* but responsive

`HTML5` `CSS3` `JavaScript`

GossipChain : An Anonymous Network Information Discovery Protocol

🔗 GossipChain

An alternative anonymous network protocol (ala Tor), using the principles of Gossiping on a distributed hash table to transmit network knowledge in a scalable and anonymous way

`Network Programming` `Go` `Python` `Information Security`

XomB

🔗 github.com/xomboverlord/xomb

> A full POSIX-compliant exokernel operating system
> A cooperation between the University of Pittsburgh, and the University of Southern California
> Developed a market-based scheduling algorithm to test its viability

`Systems Programming` `D (Language)`