

Tom Ekshtein

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EXPERIENCE

Cyber Security Engineer

May 2024 – Present

Boeing Defense, Space & Security

Colorado Springs, CO

- Fixed and modified Navsea's Evaluate-STIG to evaluate and implement Security Technical Implementation Guidelines (STIGs) across the site's machines utilizing PowerShell, resulting in 40% of machines requiring changes to become compliant.
- Implemented vulnerability scanning across 6 different repositories for mission critical code utilizing a combination of tools in the Jenkins Pipeline.
- Conducted penetration testing across multiple projects and networks, resulting in critical vulnerabilities being patched, dependencies updated, and architecture updates.

Software Engineer Intern

Mar. 2023 – May 2024

Digma.ai

Sunnyvale, CA

- Conducted high concurrent load testing on real-world, open-source projects such as Spring's pet-store, Restbucks, and Arch-Evident Spring to validate functionality and reliability of real-time code linter leveraging Spring, Spring Boot, and Spring Modulith frameworks.
- Identified conditions leading to database connection pooling issues, and conducted thorough analysis of various scenarios utilizing Hikari and C3P0.
- Key contributions include successfully ensuring the compatibility of our linter with Spring, Spring Boot, and Spring Modulith, enhancing its usability for a broader range of developers.

PROJECTS

SoLong!

Aug. 2023 – Present

- SoLong is a university-sponsored project showcasing the mechanisms and potential impacts of file-less ransomware attacks.
- Designed to evade Anti-Virus detection and operate without administrator privileges, this ransomware variant self-erases Windows PowerShell logs and Event Viewer entries while encrypting local user files.

pMap

May 2024 – Dec. 2024

- Try it out!
- A PowerShell alternative to nMap - designed for network port scanning where nMap is unavailable or restricted, but PowerShell is accessible.
- Multi-threaded, multi-targeting capable, customizable, and verbose. The 1000 most common ports of a device can be scanned in about 15 seconds with 90% accuracy.

Anti-Adblock Blocker

Dec. 2023 – May 2024

- [The extension can be found here](#)
- Engineered a Chrome extension to enhance user experience by detecting and eliminating intrusive popups that attempt to disable adblockers and restrict webpage access.

EDUCATION

California State University Long Beach

Long Beach, CA

B.S Computer Science, Minor Cyber Security — Graduated Cum Laude, GPA: 3.539

Aug. 2022 – Dec. 2024

CERTIFICATIONS

CompTIA Security⁺: Credential ID - MB0QJSJ66EBRQQ2C0

TECHNICAL SKILLS

DevOps & Cloud: AWS Services (ECS, S3, DynamoDB, IAM), Docker, Gradle, Maven, Git
Programming and Scripting: PowerShell, Java, Python, MASM, C/C++, Bash, HTML, PHP
Web Development & Frameworks: RESTful APIs, Spring Frameworks, Flask, Django
Tools: Nessus, Burp Suite, Jenkins, RHEL, Docker, Open-Telemetry, Microsoft Office
Databases: PostgreSQL, MongoDB
Additional Skills: Agile, Linux, Team Leadership, Cyber Security, Penetration Testing