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Olivia Gallucci
Senior Security Engineer

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WORK EXPERIENCE

SecuInfra *Senior Security Engineer, Feb 2025 — Present*   **Remote, NY**

- Lead macOS internals research focused on user-space security, undocumented APIs, and system behavior.
- Serve as subject-matter expert for macOS incidents, providing analysis, tooling, and remediation.
- Collaborate with malware analysis, incident response, and threat intelligence teams to improve macOS detection engineering and reverse engineer Apple-specific threats.
- Present at conferences and publish research on Apple platform security.

Apple *Offensive Security Engineering, May 2022 — Aug 2024*   **Sunnyvale, CA**

- Red Teaming: Designed and executed long-term adversary simulation engagements to assess enterprise security. Conducted short-term network and application penetration tests. Developed and deployed custom exploits, payloads, and automation frameworks to enhance the team's capabilities.
- Application Security: SAST, DAST, and manual code reviews for iOS, web, and internal enterprise software. Automated security analysis workflows. Provided remediation and SSDLC guidance to developers.
- Threat Modeling & Secure Design Reviews: Conducted architectural risk assessments on new Apple ecosystem features.
- Services Engineering: Collected and normalized enterprise security data. Enabled quantitative analysis of security service data in Tableau and Excel. Built decision-enabling knowledge graphs of security services using NetworkX.

Department of Homeland Security *Vulnerability Researcher (Ctr), Jan — May 2023*   **Rochester, NY**

- Software Bill of Materials (SBOM) research sponsored by the Cybersecurity & Infrastructure Security Agency.
- Software development on the National Vulnerability Intelligence Platform (NVIP).

RIT *Free & Open Source Software (FOSS) Research and Teaching Assistant, Jan 2021 — May 2023*   **Rochester, NY**

Cyber Defense Magazine *Cybersecurity Reporter, Jul 2021 — May 2022*   **Washington, DC**

Deloitte *Cyber Risk and Advisory Intern, Jun 2021 — Aug 2021*   **New York, NY**

EDUCATION

Rochester Institute of Technology (RIT) - Honors Program & Presidential Scholar

Master of Business Administration	GPA: 4.00/4.00
Bachelor of Science in Computing Security, *Minor* in FOSS & Freedom Culture	Top 1% of Student Body by GPA
Bachelor of Science in Computer Science, *Minor* in Business Administration	2x Barry Goldwater Nominee

PROJECTS, PUBLICATIONS, & CONFERENCES

Presentations & Events: 3x DEFCON, 3x BlackHat (USA, EU), 8x BSides, 2x WiCyS, 2x Objective-See, THOTCON, Linux Plumbers, 2x CNCF, RSA, 2x ShmooCon, Chaos Communication Congress, ICANN, PostgreSQL EU, No Hat

Scalability, Storage, and System Optimization in Low Latency Environments *Rajendra Raj, PhD*	2025
Cross-Platform Exploitation: How OS Architecture Shapes Binary Exploits*	2024
Easy EASM: The Zero Dollar Attack Surface Management Tool* *Jason Haddix & Gunnar Andrews*	2023
Economics and Ethics Behind Successful FOSS Security Projects* *Stephen Jacobs*	2021, 2022
Analyzing Tactics and Developmental Trends of Open Source Malware *Amit Ray, PhD*	2022
Effectiveness of Threat Mitigation in Layers of the Open Systems Interconnection Model*	2021

* *Presented Internationally*

MISCELLANEOUS

Languages	C, Python, Assembly (ARM, MIPS, x86), Java, SQL
Tools	Unix, Linux, Burp Suite, Semgrep, IDA, Valgrind, OllyDbg, MySQL, Wireshark
Competitions	3x Offensive/Defensive, 5x Blue Team, and 7x Capture the Flag (Team Intelligen't)
Hobbies	Security and Open Source Blog (10k+ followers), Personal Training, Sailing, Powerlifting, Reading
Initiatives	Miles for Mac Security at the Objective-See Foundation
Scholarships $200k+	2x (ISC)², Raytheon, Crowdstrike, Society of Women Engineers, Google Lime Semi-Finalist
Service Awards	U.S. Congressional Award, 300 Hour Service Designations with *FIRST* Robotics, Girls Scouts of America, & Habitat for Humanity