

Andrey Nikitin

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Gainesville, Florida - 32608, United States

EDUCATION

- **University of Florida** - *BS Computer Science* GPA: 3.96/4.00 Aug 2023 - May 2027
 - **Relevant Coursework:** Penetration Testing, Adversarial CyberTradecraft, Malware Reverse Engineering, Cryptography, Competitive Programming, Programming Language Concepts, Algorithm Abstraction and Design, Operating Systems, Computer Organization, Data Structures and Algorithms, Digital Logic
 - **AI Scholars award:** Optimized MDANCE in C++, which improved k-means to an O(n) efficiency

EXPERIENCE

- **UF CSOC for the state of Florida** - *L1 SOC Analyst* May 2025 - Present
 - Analyzed +3 billion security threats daily using Security Onion infrastructure.
 - Resolved +100 Defender incidents per week by developing custom tools & scripts for efficient triaging.
 - Authored extensive documentation and playbooks for onboarding of new analysts.
 - Secured compromised accounts, reverse-engineered malware, and conducted USB forensics.
- **UF Student Information Security Team** - *President + Vice President + Interim Webmaster* Aug 2024 - Present
 - Increased membership retention by 300% by hosting informative and interactive weekly meetings.
 - Tripled the number of sponsors and collaborated with 6 times as many universities.
 - Centralized team infrastructure and documentation, resulting in a 150% increase in engagement.

COMPETITIONS

- **US Cyber Games** 🏆 - *Combine Qualifier (Top 100)* June 2025 - Sep 2025
- **SECCDC** 🏆 - *Most Valuable Member* Mar 2025
 - Secured the **Best in Defense** award by developing lightweight sh scripts for system hardening
 - Red teamed during practice to train members in threat detection and response
 - Managed over 20 clients through a Salt interface.
- **Temple University's Social Engineering Competition Q** - *Captain* Apr 2025
 - Secured 3rd place in the OSINT round. Mentored team by having them OSINT and vish me for a month.

PROJECTS

- **CPTC Report Generator** - *Python, LaTeX, JS* Sep 2025 - Present
 - Automatically generates a professional report, written in LaTeX, findings during a penetration test.
- **Funmap** - *Sh, HTML/CSS/JS* Apr 2025 - Present
 - Secured network within minutes, by creating lightweight orchestration tool with minimal dependencies.
- **QuTee** - *Julia, IBM Quantum* Dec 2023 - Aug 2024
 - Invented state-of-the-art Adam-Cayley optimizer for Quantum Process Tomography, allowing orders-of-magnitude faster characterization of noise in quantum computing.

TECHNICAL SKILLS

Dev: Bash, SaltStack, Linux, C++, Julia, Python, HTML/CSS, TS/JS (React, Next), SQL (Postgres), Ruby

Red/Blue: System Administration, Penetration Testing, Firewalls, Reverse Engineering, Social Engineering

Tools: Nmap, Metasploit, BurpSuite, Yara, Security Onion, Kibana, Microsoft Defender

Personal: Team Leadership, Product Management, Documentation, Public Speaking

PATENTS AND PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [C.1] Daniel Volya, Andrey Nikitin, Prabhat Mishra (2024). **Fast Quantum Process Tomography via Riemannian Gradient Descent**. In *IEEE - QCE*