

# 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**  - *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