

# Rian Gonzalez Gomez

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## EDUCATION

**University of North Carolina at Chapel Hill | Chapel Hill, NC** Aug. 2024 - Anticipated Dec. 2026

**B.S. in Computer Science**

- **Relevant Coursework:** Files & Databases, Computer Organization, Security Concepts, Data Structures
- **Activities:** Rams Hack Cybersecurity

**Miami Dade Honors College | Miami, FL**

Aug. 2022 - July 2024

**A.A. in Computer Science**

- **Relevant Coursework:** Linear Algebra, Calculus I-III, Discrete Mathematics
- **Honors:** Dean's List, Sigma Zeta Honors Society, Phi Theta Kappa Honors Society

## TECHNICAL SKILLS

**Languages:** C++, Java, C, HTML/CSS, Python

**Tools and Frameworks:** Arch/Debian Linux, BIOS/UEFI Programming, Network Security Tools, PowerShell, Git

## EXPERIENCE

**Griffis Institute | Rome, NY** June 2024 - Aug. 2024

*Research Intern – Embedded Systems Security*

- Reverse-engineered QSPI protocol to optimize 8×16/16×16 antenna arrays, achieving 4x throughput gain.
- Devised data-slicing strategy for 40-bit packets to improve transmission efficiency.

**Air Force Research Laboratory | Rome, NY & Miami, FL** May 2023 - Nov. 2023

*Cybersecurity Research Intern*

- Analyzed Raspberry Pi vulnerabilities in DoD embedded systems and identified critical attack vectors.
- Proposed mitigations via encryption, service restriction, and credential hardening.

**University of North Carolina at Chapel Hill – School of Medicine | Chapel Hill, NC** Oct. 2025 - Present

*IT Security Assistant*

- Support HIPAA-compliant infrastructure for research and medical operations.
- Monitor endpoints, patch vulnerabilities, and enforce access controls.

## PROJECTS

### Specialized ThinkPad T480 - Security Enhancement

- Reprogrammed BIOS/UEFI firmware using EEPROM flash tools and SOIC8 clip.
- Restored admin credentials, enabled Secure Boot, and hardened kernel-level security on Arch Linux.

### Celestial Denizen - Game Development Project

- Developed a turn-based dungeon crawler in Java using the Model-View-Controller and Observer design patterns.
- Implemented enemy AI, collision logic, and dynamic score tracking for gameplay balance.

## LEADERSHIP EXPERIENCE

**Xplora Capstone Project** Aug 2023 - Apr 2024

*Team Lead*

- Directed STEM outreach initiatives in Peru introducing children to programming and mental-health awareness.
- Managed logistics, partnerships, and educational activity design for community events.

**Urbana Literary & Arts Magazine** Apr 2023 - Apr 2024

*Web Director*

- Led a web development team overseeing database management and site design for academic publishing.