

# Brendan Derby

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## EDUCATION

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### University of South Florida

*Bachelor of Science in Cybersecurity, Minor in Entrepreneurship*

Tampa, FL

Aug. 2022 – May 2026

## EXPERIENCE

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### Project Management Team Student Assistant

Jan. 2025 – Present

*University of South Florida*

*Tampa, FL*

- Assisted the Audio-Visual project management team, maintained asset and inventory systems, prepped and staged AV projects, supported logistics and deliveries, performed on-site system installations, and applied space data management tools.
- Used Jira to support project management workflows, track and resolve issues, manage task progress, and assist with inventory oversight.

### Student Audio Visual Technician

Jan. 2024 – Jan. 2025

*University of South Florida*

*Tampa, FL*

- Performed system diagnostics and troubleshooting, provided technical support to faculty and staff, and delivered clear communication in professional academic settings.
- Troubleshooted and resolved technical issues with computers, webcams, speakers, document cameras, monitors, and lapel microphones to ensure seamless operation.
- Maintained upkeep of computers, classroom equipment, and printers across campus.
- Promoted to Student Assistant in the Project Management team.

## PROJECTS

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### RSA public key system | *Rust*

Fall 2024

- Developed a simplified RSA encryption system in Rust, implementing key generation, message encryption, and decryption.
- Utilized custom algorithms for primality testing, modular exponentiation, and modular inverse computation.
- Integrated file I/O to securely store and retrieve public and private RSA keys.
- Applied cryptographic concepts to encode and decode plaintext messages, demonstrating understanding of public-key encryption.

### Password Strength Meter | *C*

Fall 2024

- Designed and implemented a configurable password validation tool in C to enforce security rules from input configuration files.
- Validated passwords against core and optional criteria such as length, repetition, case sensitivity, digits, and special characters.
- Utilized file parsing to support dynamic validation rules and batch processing of multiple password sets.
- Applied modular programming principles to create reusable functions for character checks and policy enforcement.

### Veterinary Lab Database System | *SQL*

Spring 2024

- Designed and implemented a relational database in Oracle SQL to manage clients, employees, tests, orders, and results with primary/foreign key constraints.
- Developed optimized queries, indexes, and reporting views (e.g., orders by city, reporting lag, anniversary discounts) to support business insights and performance.

## SKILLS

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**Languages:** Rust, Python, C, SQL (Postgres, MariaDB, MongoDB), HTML/CSS

**Scanning & Security:** Linux, VMware, VirtualBox, Nmap, Wireshark, Netcat, Tcpdump, Medusa, BurpSuite, Snort, Volatility, feiv, Putty, psep, Hydra, HTTrack, Splunk

**Developer Tools:** Docker, Visual Studio Code, DBeaver