Jack Merritt

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https://linktr.ee/JackMerritt (Includes links to: LinkedIn, GitHub, and LeetCode)

EDUCATION

University of Cincinnati, CECH — Expected: May 2028

Bachelor of Science in Cybersecurity, Network/Systems Administration — Cincinnati, Ohio

- **Cumulative GPA: 4.0**

- Relevant Classes: Information Security and Assurance, Database Management I & II, Cybersecurity Policy, Network Infrastructure Management, Human Computer Interaction, Computer Networking, System Administration, Computer Programming 1, Web Development, Applied Statistics, College Precalculus, Discrete Mathematics

- Student Organizations: Cyber@UC, UC-AI, UC Mountaineering

WORK EXPERIENCE

Personal Tutor — September 2024 - Present

University of Cincinnati, Bearcat Buddies — Cincinnati, Ohio

- Tutor dozens of children per semester in elementary, middle, and high schools in math, English, and various other subjects

- Focus on assisting Cincinnati Public Schools' students with additional guidance to reach their full academic potential inside and outside the classroom

PROJECTS

Encrypted Chat Application — January 2025 - Present

- Developed a secure, real-time messaging app in Python using **AES** and **RSA encryption** for end-to-end privacy and secure key exchange

- Implemented **Socket Programming** for real-time communication and designed a user-friendly GUI to balance usability with robust security

Quantum-Resistant Tool with BB84 and IonQ — December 2024 - Present

- Engineered a **Python-based** encryption tool incorporating quantum-resistant algorithms and the **BB84 quantum key distribution protocol**, with simulated quantum computing capabilities

- Collaborated with a peer to implement a quantum-safe process leveraging BB84 and validated performance using **IonQ's Quantum hardware simulator**

Blockchain-Based Voting System — September 2024 – Present

- Created and developed a secure, tamper-proof voting system using **Ethereum blockchain, Solidity smart contracts**, and **MySQL** for authentication and vote management

- Designing a user-friendly voting interface with **HTML, CSS, and JavaScript**. The system is tested using Ganache, Truffle, and MetaMask

SKILLS

- Programming: **Proficient in** Java, SQL, HTML, CSS; **Familiar with**: Python, JavaScript, C++
- Systems: **Windows**: 8/10/11, 2016/2022 Server **| Linux**: Kali, ArchLinux, Parrot Security, CentOS
- Other Skills: CISCO Ethical Hacker, Encryption, Network Security, Database MGMT, Blockchain
- Tools: Git, Wireshark, Nmap, Ganache, Truffle, Metasploit, Nessus, Splunk, Ghidra, IonQ

Available: Summer 2025 for co-op