

Henry Monteith

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Computer Science student with strong full-stack development experience, leadership in cybersecurity competitions, and a passion for building robust, scalable systems. Seeking a Summer 2026 internship in software engineering.

Education

University of South Carolina <i>B.S. in Computer Science; GPA: 3.90/4.00</i> <ul style="list-style-type: none">◦ Major Coursework: Computer Architecture, Software Engineering, Operating Systems, Programming Language Structures, Data Structures & Algorithms, Computer Networks◦ Honors/Distinctions: Capstone Scholar, Dean's List, President's Honor List	<i>Columbia, SC</i> <i>August 2024 – May 2028</i>
Academic Magnet High School <i>High School Diploma; August 2020 – June 2024</i>	<i>Charleston, SC</i>

Projects

Dot (Social Media Application) <i>Python, HTML, CSS/TailwindCSS, JavaScript, PostgreSQL, PyTorch</i> <ul style="list-style-type: none">◦ Developed full-stack social media application using Python and FastAPI◦ Designed and deployed responsive frontend with HTML/CSS/JavaScript; built REST APIs to support authentication, post creation, and modifying/removing users and posts◦ Built sentiment analysis system using PyTorch and NLP techniques to filter content and reduce toxicity◦ Architected and managed PostgreSQL database schema to support scalable post/user data model	<i>github.com/hmont/dot</i>
Cinder (Real-Time Chat Application) <i>JavaScript, Node.js, React, WebSockets, Redis</i> <ul style="list-style-type: none">◦ Developed full-stack real-time chat application using Node.js and React◦ Built real-time messaging backend with WebSocket protocol and Express◦ Implemented RSA-4096 end-to-end encryption to secure messages and maximize user privacy and message integrity◦ Designed backend architecture using Redis for session management and in-memory data structures for chat room state	<i>github.com/hmont/cinder</i>

Technical Experience

Cybersecurity Team <i>Team Captain; Windows Specialist; Linux Specialist</i> <ul style="list-style-type: none">◦ Led 6-person team to 1st-place finish in CyberPatriot XVI Semifinals (SC) and 2nd-place finish in 2024 Palmetto Cyber Defense Competition◦ Secured Linux/Windows servers under live-fire conditions using iptables, UFW, Wireshark, and Nmap; scripted automation tools using PowerShell and Python to accelerate server lockdowns and network scans◦ Mentored teammates on OS internals and attack mitigation techniques, improving team collaboration and technical depth	<i>Charleston, SC</i> <i>January 2022 – June 2024</i>
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Additional Experience

Target <i>Guest Advocate; Front of Store Attendant</i> <ul style="list-style-type: none">◦ Speedily resolved customer-facing issues in a fast-paced environment; developed communication/problem-solving skills	<i>Charleston, SC</i> <i>June 2023 – August 2024</i>
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Skills

Languages: Python (<i>proficient</i>); Java, JavaScript, C++, SQL, HTML/CSS (<i>intermediate</i>); C#, Rust (<i>familiar</i>)
Frameworks/Tools: FastAPI, Git, Linux (<i>proficient</i>); Node.js (<i>intermediate</i>); AWS (<i>familiar</i>)
Databases: PostgreSQL, MySQL, MongoDB (<i>intermediate</i>)
Libraries: pandas, NumPy, scikit-learn (<i>intermediate</i>); PyTorch (<i>familiar</i>)

Awards

Palmetto Fellows Scholarship <i>South Carolina Commission on Higher Education</i>	<i>August 2024 – Present</i>
South Carolina Seal of Biliteracy (English and Spanish) <i>South Carolina Department of Education</i>	<i>June 2024 – Present</i>