

Ramon J. Williams

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EDUCATION

- **University of Kentucky College of Engineering** **Lexington, KY**
Bachelor of Science in Computer Science *Expected Graduation: May 2028*
Major in Computer Science; Minors in Mathematics
GPA: 3.5/4.0
- **Relevant Coursework:** Introduction to Program Design, Data Structures, Advanced Programming & Operating Systems Interfaces, Discrete Mathematics, Numerical Methods, Calculus III

SKILLS

- **Programming:** Python, Java, JavaScript, C++, MATLAB, HTML, CSS, SQL, Bash/Shell scripting
- **Software Development / Tools:** Git/GitHub, Visual Studio, VS Code, Eclipse, Linux, Agile workflow, Debugging, Unit Testing, RESTful APIs (JSON, Postman)
- **AI & Machine Learning:** LLM integration (OpenAI API), Prompt engineering, Data analysis, Machine learning fundamentals, MATLAB modeling, Data visualization
- **Cloud & Systems:** Operating systems (Windows, Linux), Virtualization (VMs, Docker), Cloud services (Microsoft Azure), CI/CD concepts
- **Security & Networking:** Host-based threat monitoring, Gophish phishing simulation, Network setup & configuration
- **Design & Media:** Web design, UX/UI fundamentals, Microsoft Office, Video editing (DaVinci Resolve)

RECENT PROJECTS

- **AI-Powered Study Assistant Web App** (*Full-Stack • AI • Cloud*) *Fall 2025 - Present*
 - Developing a web-based study assistant that uses an LLM API to generate summaries, flashcards, and practice questions from uploaded notes
 - Implementing Flask/Node backend with SQL database for storing user data and study materials
 - Integrating OpenAI API for natural language processing and response generation
 - Deploying the containerized application on Microsoft Azure using Docker for scalability and reliability
 - Focused on user experience, secure authentication, and efficient API handling
- **Host-based Intrusion Detection System (HIDS)** (*Python • Security • Systems*) *Fall 2025*
 - Built a lightweight HIDS in Python to monitor file integrity and detect unauthorized system modifications
 - Utilized cryptographic hashing algorithms (SHA-256) to identify file changes and log anomalies
 - Designed configurable monitoring rules and modular architecture for easy expansion
 - Tested detection accuracy and optimized thresholds to minimize false positives
- **Phishing Attack Simulation with Gophish** (*Cybersecurity • Social Engineering*) *Fall 2025*
 - Deployed a phishing simulation using Gophish to analyze user responses to targeted email campaigns
 - Configured custom templates, tracked interaction metrics, and identified weak points in email security practices
 - Documented findings, proposing mitigation strategies to improve awareness and reduce future risk
- **Web Development Projects** (*Frontend • Client Work*) *Summer 2025 - Present*
 - Designing and developing responsive, user-friendly websites using HTML, CSS, and JavaScript for individual clients
 - Implementing cross-browser compatibility and mobile responsiveness with clean UI layouts
 - Applying UX principles to optimize accessibility and user engagement

WORK EXPERIENCE

- **Kroger** (*E-Commerce Pickup Associate*) *2023 - Present*
 - Processed 100+ customer orders weekly with 95% accuracy through efficient teamwork and coordination to ensure on-time deliveries.

ACTIVITIES & LEADERSHIP

- **ColorStack** *2025 - Present*
 - Co-founded a student community promoting diversity in CS through mentorship, collaborative software projects, and hackathons.