Ramon J. Williams

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EDUCATION

- **University of Kentucky College of Engineering** **Lexington, KY**
  Bachelor of Science in Electrical Engineering *Expected Graduation: Dec 2027 / May 2028*
  Minors: Computer Science, Mathematics
  GPA: 3.6/4.0, Dean's List
- **Relevant Coursework:** Circuits I, Digital Logic Design, Physics I & II, Physics Laboratory I & II, Calculus III & IV, Numerical Methods, Discrete Mathematics, Data Structures, Advanced Programming & Operating Systems Interfaces

SKILLS

- **Programming & Scripting:** Python, Java, JavaScript, C++, MATLAB, HTML, CSS, SQL, Bash/Shell scripting
- **Electrical / Engineering Tools:** Circuit analysis, Digital logic fundamentals, Numerical modeling, MATLAB simulations
- **Software Development / Tools:** Git/GitHub, Visual Studio, VS Code, Eclipse, Linux, Agile workflow, Debugging, Unit Testing, RESTful APIs (JSON, Postman), Microsoft Office
- **Security & Networking:** Host-based threat monitoring, File integrity monitoring, Phishing simulations, Network setup & configuration
- **Cloud & Systems:** Operating systems (Windows, Linux), Cloud services (Microsoft Azure), Virtualization (VMs, Docker), CI/CD concepts
- **AI & Machine Learning:** LLM integration (OpenAI API), Prompt engineering, Data analysis, Machine learning fundamentals, MATLAB modeling, Data visualization

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 • Networking)* *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 EE through mentorship, collaborative software projects, and hackathons.