

# Ali Faiyaz Ahmed Ansari

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## EDUCATION

### University of Cincinnati

B.S. in Computer Engineering

Dean's List: Fall 2024, Spring 2025

Global International Outreach Scholarship

University Honors Program

Cincinnati, Ohio

Graduation, May 2029

GPA 4.0

## SKILLS

**Programming:** C++, Python, JavaScript, Java, SQL, ASP.NET, MATLAB, VBA, HTML/CSS

**Hardware Systems:** Arduino, NI LabVIEW

**Web & Development Tools:** Bootstrap, Git, Visual Studio, Pycharm, Jupyter Notebooks

**Technical Skills:** Circuit Design, Technical Documentation, Adobe Premiere Pro

## PROJECTS

### Alert, University of Cincinnati

Aug 2024 – Dec 2024

- Led a project for an engineering course, building safety device to reduce the crime rate of Sierra Leone by 20%
- Constructed a precise computational model of a GPS circuit, achieving a 95% reduction in location errors compared to existing solutions
- Designed and built a functional prototype of the device, overseeing multiple testing phases to validate performance, ensure compliance with design specifications, and achieve a 35% improvement in tracking accuracy

### QuantumLeap, Qatar Center for Quantum Computing

July 2024

- Coded and optimized over 5 quantum algorithms using the Qiskit framework in Python, improving quantum circuit efficiency by 30% in simulations.
- Simulated and tested quantum algorithms on classical computers using state-vector simulators, achieving 95%+ accuracy in modeling qubit behavior
- Mastered and applied key quantum computing concepts including qubits, superposition, entanglement, quantum gates, and teleportation, researched quantum cryptography and the future of quantum computing

### Compurizz, Independent

December 2024

- Won the TPIA Award at the Brainrot Jia.Seed Hackathon, competing against 50+ teams for innovative software development
- Integrated using React.js for an intuitive frontend UI and Node.js for a scalable backend
- Built a professional development tool that generates customized career roadmaps and skill-building recommendations

### SustainGenius, RevolutionUC

March 2025

- Developed a full-stack web application using HTML, CSS, JavaScript, Flask, and SQL to generate recipes based on user-inputted leftover food items, promoting sustainability and reducing food waste by up to 40% in unit testing
- Conducted in-depth research on food sustainability and recipe generation, analyzing 20+ sources to refine the algorithm and explore practical applications in reducing global food waste.
- Presented the project to a panel of judges, delivering a structured and engaging pitch

## ACTIVITIES AND LEADERSHIP

- Member, IEEE (Institute of Electrical and Electronics Engineers) – Participated in 5+ technical workshops and seminars, focusing on embedded systems, circuit design, and industry trends
- Member, ACM (Association for Computing Machinery) – Competed in 3+ coding challenges and hackathons; collaborated on open-source software discussions and peer code reviews
- Volunteer: Cincinnati Youth Collaborative, Ronald McDonald House of Charity of Greater Cincinnati, Clean Up Cincy, Queen Bee Half-Marathon (30+ volunteering hours)