

# Richmond Agyenim-Boateng

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## EDUCATION

### New York University

Bachelor of Arts in Computer Science, Minor in Mathematics & IM

Abu Dhabi, UAE

Aug. 2023 – May 2027

### St. James Senior High

General Science

Sunyani, Ghana

Aug. 2018 – Sept. 2021

## EXPERIENCE

### IT Intern and Programming Instructor

Young Achievers Foundation Ghana

June 2024 – Aug. 2024

College Station, TX

- Conducted a thorough audit of the foundation's website, identifying and fixing bugs, improving load times by 30%, and ensuring the site was fully optimized for mobile devices.
- Developed and taught a beginner-level programming curriculum as part of the Computer Literacy Empowerment Program, focusing on Python and Scratch. Successfully guided 20+ students to complete their first coding projects in C++.
- Assisted the Senior Program Manager with the planning and execution of a website redesign project, which included migrating content, updating security protocols, and integrating new features to enhance user engagement.

### Mentor and Cohort Facilitator

Young Achievers Foundation Ghana

June 2023 – Present

Kumasi, Ghana

- Led a mentorship program for recent high school graduates, focussing on academic readiness and personal development.
- Edited College application for cohort members
- Tutored 50 students in Mathematics preparing them for the June 2023 SAT exams

### Research Assistant

ICF Research Group

Dec 2022 – Feb 2023

Kumasi, Ghana

- Conducted literature reviews and collected data on renewable energy technologies (solar and wind).
- Prepared reports and visualizations on energy efficiency, contributing to paper publication
- Edited research materials for clarity and academic standards.
- Supported and promoted seminars on renewable energy, increasing attendance by 15%.

### Resource Optimization Specialist

Green Gold Company Ltd

Sep. 2022 – November 2022

Ghana

- Conducted comprehensive analysis of water usage in agriculture and identified inefficiencies in traditional irrigation methods.
- Engineered a budget-friendly automated irrigation system utilizing soil moisture sensors and IoT technology to precisely regulate water delivery, reducing water wastage by 30% and increasing crop yield by 15%.

## PROJECTS

### Hand Gesture-Controlled Robotic Arm(Ufactory X arm) | Python

Jan. 2024 – May 2024

- Developed a Python-based control system for a robotic arm using OpenCV, Mediapipe, and XArmAPI
- Programmed hand gesture recognition to map wrist movements and detect closed hands, controlling the robotic (Ufactory X arm) arm's movements.

### Campus Explorer | Unity, C#

Sept 2023 – Dec. 2023

- Team up with 2 students to build NYUAD campus virtual reality tour application using tools like unity, C# and Vr headset with audio and interactive features.

## TECHNICAL SKILLS

**Languages:** Python, C++, SQL (Postgres), JavaScript, HTML/CSS, R, Unity.

**Frameworks:** React, Node.js, Flask, RestfulAPI, WordPress.

**Developer Tools:** Github, VS Code, Visual Studio, PyCharm, Ms Word, Adobe Photoshop, Content Creator.

**Soft :** Leadership,Event planning & organization, Teamwork, Strong Communication.