

# RAPHAEL BOAKYE

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## EDUCATION

**Bethune-Cookman University** - Daytona Beach, FL

**Expected Graduation:** May 2026

**Major:** Computer Science

**GPA:** 3.87/4.0

**Relevant Coursework:** Databases (SQL), Data Structures and Algorithms (Java), Object-Oriented Design (Java), Computer Networks & Communication, Mobile Applications Development, Calculus I & II, Linear Algebra, Operating Systems

## EXPERIENCE

**Microsoft - Software Engineer Intern** | Atlanta, GA

May 2024 – Present

- Developed and improved features for the **Azure Compute Instances Monitoring Dashboard** using **TypeScript**, **React**, and **FluentUI**, enhancing usability and performance visibility.
- Wrote comprehensive **unit tests with Jest** to ensure functionality and regression safety for all feature enhancements and code changes.
- Participated in **bug bash sessions** to validate and stress-test new dashboard features, helping uncover edge-case failures prior to release, while gaining experience with cloud-native diagnostics and telemetry workflows.
- Applied practical knowledge of **Bash scripting**, **Linux systems**, and cloud infrastructure tooling in support of monitoring reliability and diagnostics.
- Investigated **PR build failures** using internal CI/CD diagnostic tools, identifying root causes in deployment pipelines.
- Utilized **Git** for version control and regularly contributed to team-wide **code reviews** and agile sprint cycles.

**BEC Research - Fullstack Engineer Intern** | Daytona Beach, FL

May 2024 – August 2024

- Developed and enhanced functionality of the website using **React.js** and **Node.js**, focusing on optimizing load times and donation processing.
- Engineered a content delivery system utilizing **AWS S3** and **CloudFront** to significantly improve latency reduction, crucial for real-time financial data handling.
- Implemented robust security measures and streamlined donation processes using Stripe's **REST API**, enhancing transactional security and efficiency.

**University of Florida - Fullstack Engineer Intern** | Remote

June 2023 – Aug 2023

- Developed a front-end using **HTML**, **CSS**, and **Bootstrap** and a **Python**-based backend for virtual human video platform, in collaboration with Dr. Benjamin Lok's research group.
- Enhanced deployment efficiency and system scalability using **Docker** and **AWS EC2**, reducing build and deployment times by **50%**.

## SKILLS

**Programming Languages:** Java , Python, C++, C#, Typescript, JavaScript

**Databases:** MongoDB, PostgreSQL, MySQL

**Tools and Technologies:** React.js, Node.js, FluentUI, Bootstrap, Azure, AWS(S3, EC2 CloudFront), Docker, Kubernetes, Git/GitHub, REST API, Jest, Postman

**Operating Systems:** Windows, Linux, macOS

## PROJECTS

**Global Microsoft Intern Hackathon (2025) – 1st Place Winner**

- Collaborated with 5 other interns on **Azure Resource Advisor+**, a platform designed to assist organizations transitioning from on-premises infrastructure to the cloud.
- Developed intelligent, data-driven dashboards that provide tailored recommendations for **cloud adoption**, **resource scaling**, and **cost optimization** across the top five cloud providers.
- Contributed to building a functional prototype in under 48 hours, which won **1st place** for the Microsoft Customer Engagement & Sales challenge in Microsoft's **global intern hackathon**, beating out teams worldwide for innovation and impact.