

# Ankit Rijal

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## EDUCATION

**Fisk University, Nashville, TN**

GPA: **4.0**

*Bachelors of Science, Computer Science and Mathematics*

*Expected Graduation: May 2027*

**Relevant Coursework:** Data Structures and Algorithm, Introduction to Computer Science-Python (Google in Residence program), Object Oriented Programming-Java, Calculus I, Calculus II, Linear Algebra, Statistics, Discrete Mathematics, UI/UX Human-Centered Design

## SKILLS

**Languages:** Python, Java, JavaScript, HTML, C++, SQL

**Tools/Technologies:** Git, GitHub, Visual Studio Code, CSS, Eclipse, Figma, Autodesk 360, JSON, React.js, NumPy, Pandas

## PROJECTS

**LightingMcQueen (Robo-Soccer Winner)** | *JavaScript, C++, Autodesk 360, Arduino*

May 2024

- Designed **3D Models** of robot frame using **Autodesk Fusion 360** and programmed advanced directional control algorithms in **C++** on **Arduino Uno**, achieving a **15%** increase in maneuverability and securing **1st** place out of 12 teams in the Robo-Soccer competition at Caldwell University.
- Developed a Bluetooth-enabled mobile app using **Figma, HTML, CSS** and **JavaScript** for real-time robot control, reducing latency by **30%** and enhancing obstacle navigation through integrated sensor feedback, outperforming competing designs.

**RescueSnap (CodeClash Hackathon Winner)** | *Python, OpenCV, APIs*

December 2023

- Engineered a real-time emergency notification system in **Python** with **OpenCV** for gesture-based event detection, enhancing women's safety by utilizing predefined hand gestures to trigger automated **SOS alerts** via the **D7SMS API**.
- Integrated **Google Geolocation API** to dispatch **real-time location data** to emergency contacts through smartphone-connected webcam interfaces, leading to **1st** place among **20+** teams at the **CodeClash Hackathon**, showcasing innovative solutions for personal safety.

## EXPERIENCE

**Student Ambassador**

December 2023 – July 2024

*Caldwell University*

*Caldwell, NJ*

- Collaborated with **admission counselors** to streamline the admissions process by filtering emails, organizing campus tours, and leading the ambassador team during university events, resulting in a **20%** increase in event participation and faster admissions response times.
- Led and coordinated large-scale events such as **Accepted Students Day** and **Open House**, guiding teams to ensure smooth execution, enhancing the experience for **500+** prospective students and families, and improving event satisfaction by **15%** through attention to detail and teamwork.

**Content Creator**

December 2022 – March 2023

*MeroSiksha*

*Remote*

- Developed **interactive 3D models** using **Autodesk 360** and **Adobe Photoshop** to enhance course materials, improving the learning experience for **200+** students by making complex concepts more accessible.
- Tutored **Mathematics** and basic **Python** to high school seniors in collaboration with their instructor, aiding their board exam preparation and contributing to a **15%** improvement in overall student performance.

## VOLUNTEERING EXPERIENCE

**Team Leader**

February 2023

*USEF fullbright*

*Remote*

- Organized and led a USA-study fair, managing a team of **27** individuals and ensuring a seamless event experience for **10,000+** students, resulting in a **20%** increase in university engagement.
- Represented Youngstown State University (YSU) at the university booth, effectively promoting the institution to prospective students, contributing to a **15%** increase in inquiries about YSU's programs.

## AWARDS AND ACTIVITIES

- Winner of CodeClash Hackathon and Caldwell Robo-Soccer Competition**
- Co-founder and Vice-President Robotics Club, Caldwell University**
- Co-founder and Secretary Math Counts, Caldwell University**
- Fisk University Outstanding Scholar and Leaders Scholarship**
- Computer Science Club, Fisk University**
- Google Developer Group, Fisk University**
- Participant at VandyHacksXI**