

GOPAL POKHAREL

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EDUCATION

Fisk University– Nashville, TN

Expected Graduation- May 2025

Bachelor of Science in Computer Science and Mathematics

Relevant coursework: Math Modelling using AI/ML, Data structures and Algorithms, Operating Systems, Theory of computation, Object Oriented Programming, Database Management, AutoCAD, Differential equations, Communication

Honors & Programs: W.E.B Dubois Honors Program, Fisk Outstanding leader scholar, NASA National Eclipse Ballooning Program Apprentice, Codepath Android, Goldman Sachs Market Madness

SKILLS

- **Languages:** Python, JavaScript, Java, C++, SQL, HTML5, CSS3, Bootstrap 5, Kotlin, Julia
- **Tools and Frameworks:** React JS, Express JS, Flask, Django, Git, MongoDB, Spring Boot, Firebase, Postman, Google Cloud Platform, Figma, React Native, ROS, Linux, Sensor Fusion, AWS, Microsoft Office 365

EXPERIENCE

Off Campus - Co-founder | Nashville, TN

January 2024 – Present

- Working on the vision of tapping into the lucrative **22.9-billion-dollar** student housing market by launching an innovative off-campus housing marketplace website powered by **MERN** stack
 - Accomplished the seamless integration of unique-selling points such as shared roommate preferences, nationality-based roommate matching, proximity to universities, and competitive rental rates
 - Achieved successful partnerships with consultancies in Nepal, facilitating smooth transitions for first-time **international students** relocating to the US without existing connections or support networks
- Skills:** MongoDB, Express.js, React JS, Node JS, Postman, Linux, Git, Testing, Debugging

City of Cincinnati - R&D Engineering Intern | Cincinnati, OH

May 2023 – Aug 2023

- Achieved more than **50% cost reduction** in data collection by developing an innovative solution using microcomputers and affordable lidar units to scan and collect 2D and 3D data points
 - Increased data processing speed by 30% and accuracy by 25% through the utilization of **Matplotlib** and **Pandas** for real-time device tracking and sensor data analysis
 - Contributed to informed decision-making and cost-effectiveness for a **\$3,000,000 sewer development project** by assisting the Project Manager in analyzing documents and contract bid options
- Skills:** Python, C++, Microcomputers, Numpy, Pandas, Matplotlib, Figma, Project management, Data analysis

International Student Network - Web developer | Remote

Oct 2022 – May 2023

- Accomplished the launch of a **full-stack website** for International Study Network, a Nepal-based study abroad company, boosted **30% increase** in client base and a 20% reduction in operational costs
 - Accomplished individually by assisting more than **200 students** in their self-application processes, resulting in a personal bonus of over **\$3000**
- Skills:** Python, Django, Git, Azure Services, SQL, Visual Studio, Communication

PROJECTS

FiskBook | [Github](#) | Javascript, MongoDB, CSS

- Accomplished the development of a real-time chat web-application exclusively for HBCU students, verified through their HBCU college email for enhanced communication using **Vue.js** for front end, **MongoDB** for database and **node.js** for backend
- Envisioned the creation of a group chat feature to establish a supportive community for international students, connecting them to internship opportunities

VOLGES | [Github](#) | OpenCV, Mediapipe, Opensource

- Accomplished the development of a cutting-edge gesture control using **OpenCV**, **Mediapipe** and **opensource pyclaw**, reducing interaction time by 40% and error rates by 25% in virtual reality applications
- Currently focused on creating intuitive hand gestures for individuals with **limited mobility**, such as those with paralysis

National Eclipse Ballooning Project | [Github](#) | Python, C++, Numpy, Linux, Debugging

- Led the **only HBCU** Payload Team launching high altitude balloon for the Nationwide Eclipse Ballooning
- Engineered a **Python-powered automation** system and integrated diverse sensors into the payload, enabling autonomous post-release functionality execution which increased data collection **efficiency by 40%** and accuracy by 25%

LEADERSHIP

Teaching Assistant – Fisk University

Aug 2023 - Dec 2023

- Introduced **67** freshmen to **object-oriented programming** in **Java** comprising basic coding, debugging, and data structures.
- Helped professor by grading exams, providing support during lab sessions, holding office hours, and counseling student

HOBBIES & DIVERSITIES : Motorbikes, Adventure sports, 70's music, Watch enthusiast, Calisthenics, **First Generation College Student**, Immigrant