

# KAMALA KAFLE

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## Summary

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BICTE student with strong skills in Python and Java full-stack development, along with hands-on experience in IoT prototyping and lab instruction. Experienced in building secure and functional web applications, solving technical problems, and explaining programming concepts effectively. Recognized by NepaTronix for engineering logic and technical excellence.

## Education

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**Madhyabindu Multiple Campus, Nepal** Expected Graduation: Dec 2026  
Bachelor of Information and Communication Technology in Education (BICTE)  
**Relevant Coursework:** D.S.A, Database Management Systems (MySQL), Object-Oriented Programming, Web Technology, Computer Networks & Communications, Digital Logic, Operating Systems, GIS, Cloud Computing

## Skills

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**Programming Languages:** Python, Java, C++, JavaScript (ES6+), SQL, HTML/CSS  
**Tools & Platforms:** Git, GitHub, VS Code, IntelliJ IDEA, Command Line, Figma  
**Hardware & IoT:** Arduino IDE, Sensor Integration, Breadboard Prototyping, Robotics Basics, Linux, LAN Configuration

## Professional Experience

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**ICT Student Assistant | Madhyabindu Multiple Campus** Mar 2025 – Present

- Led programming instruction and practical lab experiments for 30+ junior students, reinforcing concepts in Java, data structures, and database normalization while supporting exam preparation and technical problem-solving.
- Organized and conducted Git/GitHub workshops for 25+ students, improving collaborative development workflows and reducing project submission issues through effective version control practices.

## Projects

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**Project FireHalt | Arduino, Sensors, C/C++, IoT** Oct 2024

- Developed a real-time fire detection and emergency alarm system using integrated flame and smoke sensors with automated alert mechanisms for residential safety applications.
- Configured microcontrollers and sensor modules to build a live tabletop simulation prototype demonstrating hazard detection, emergency response workflows, and hardware reliability.
- Presented system architecture and implementation strategies during technical evaluations, contributing to receiving the “Most Talented” recognition.

**Smart Quiz Assessment Platform | Python, Django, MySQL, JavaScript** Sep 2025 – Dec 2025

- Developed a responsive web-based examination platform supporting secure student testing and automated evaluation management.
- Implemented role-based authentication systems separating teacher dashboards from student examination environments to improve platform security and usability.
- Built automated JavaScript-based grading functionality, reducing manual result processing time and improving examination efficiency.

**EduStream Content Management System | HTML, CSS, Bootstrap, JavaScript** May 2025 – Aug 2025

- Collaborated within a three-member development team to build a centralized educational resource platform for hosting assignments, PDFs, and video materials.
- Implemented dynamic filtering functionality enabling efficient organization of educational resources by grade level and subject categories.
- Managed collaborative workflows using Git and GitHub, including version control, feature branching, and merge conflict resolution.

## Achievements & Leadership

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**Technical Committee Member | Madhyabindu ICT Club** Nov 2024 – Present

- Co-organized the campus “TechEd” exhibition, showcasing practical applications of technology integration.
- Led peer-learning sessions on algorithms, web development fundamentals, and introductory programming concepts.

**Most Talented Student Award | NepaTronix** Oct 2024

- Recognized for outstanding technical performance, engineering problem-solving, hardware implementation, and presentation excellence during a competitive campus-wide evaluation.