

PRATIK POKHAREL

BCA Student | Aspiring Software Developer

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PROFESSIONAL SUMMARY

Motivated Bachelor of Computer Application student with foundational knowledge of C, C++, Java, databases, and web technologies. Interested in software and web development, cybersecurity, and related areas. Seeking an internship or entry-level opportunity to apply technical knowledge, build practical skills, and contribute to real-world projects.

EDUCATION

Bachelor of Computer Application (BCA)

Kantipur City College | 2023–2027 | Current semester: 7th

Higher Secondary Education (+2)

Ambition College | Management stream | Major: Computer | GPA: 3.35

TECHNICAL SKILLS

Programming: C, C++, C#, Java, JavaScript, basic Python

Web: HTML, CSS, JavaScript, PHP

Databases: SQL, MySQL, MongoDB

Tools: Git, GitHub, Visual Studio Code, IntelliJ IDEA, Dev-C++, Microsoft Office

Professional: Problem-solving, teamwork, communication, time management, research

PROJECTS

Intelligent Companion

Technologies: Java 17, OpenCV, ONNX, Vosk, Piper, Ollama (qwen2.5:3b), H2, Gmail IMAP

- Completed an offline desktop assistant with a browser-based interface for voice interaction, face-based authentication, emotion recognition, reminders, personalized memory, and local AI assistance.
- Integrated Vosk speech-to-text, Piper text-to-speech, OpenCV visual processing, ONNX emotion models, and Ollama conversational AI; used H2 for local persistence and optional Gmail IMAP to read recent messages.

Property Hub

Technologies: HTML, CSS, JavaScript, PHP, MySQL

- Built a rental property platform connecting tenants and landlords, with property listings, search and filters, favorites, booking requests, dashboards, and property management.
- Implemented role-based accounts, authentication, booking and rating features, notifications, account recovery, and property image management; also added popular and nearby property recommendations.

Student Performance Predictor

Technologies: Python, PySide6, Oracle Database, scikit-learn, pandas, Matplotlib

- Built a desktop application with separate teacher and department dashboards for student enrollment, grades, attendance, assignments, and course performance reports.
- Implemented Logistic Regression pass/fail predictions using exam results, attendance, and assignment completion, with a score simulator and CSV export.
- Used Agglomerative Clustering to group students into low, average, and high performance categories and visualize course results.

Employee Attendance System

Technologies: C#, Visual Studio Code, local database

- Developed an attendance management system with separate administrator and employee logins, recording attendance from login and checkout times and identifying late arrivals and absences.
- Implemented database integration, authentication, leave requests, and an administrator workflow to approve, reject, or hold requests, with status notifications for employees.

CERTIFICATIONS AND ACTIVITIES

MERN Stack Web Development | 2026

- Showcased a Python-based Student Performance Predictor at a project exhibition.
- Participated in workshops on research methodology and software engineering.

RELEVANT COURSEWORK

Data Structures and Algorithms; Database Management Systems; Object-Oriented Programming; Software Engineering; Web Technology; Computer Networks; Cyber Security; Artificial Intelligence; Research; Java

LANGUAGES

Nepali (native) | English (fluent) | Hindi (good)