

BIBEK GAUTAM

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Education

Institute of Engineering (IOE), Tribhuvan University

Expected May 2026

Bachelor of Engineering in Computer Engineering

Pulchowk, Nepal

- Relevant Coursework: Software Engineering, Artificial Intelligence, Operating Systems, Data Structures & Algorithms, Computer Networks, Computer Architecture

Work Experience

Freelance Developer — Ping Communications (Australia)

Feb 2024 – Present

Full Stack Developer · Graphics Designer · Social Media Manager

Remote

- Designed and developed `pingcomms.biz`, a CMS-powered dynamic website with automated mailing system and backend analytics.
- Created brand-aligned graphics, service banners, and marketing visuals for both web and social platforms.
- Implemented SEO strategies leading the site to rank **#1 in Australia** for keywords like “*CCTV service near me*” and “*CCTV services Victoria*”.
- Optimized website performance and responsiveness across all devices, ensuring fast load times and strong UX.
- Managed social media campaigns that increased brand visibility and organic engagement.

Projects

Hybrid Network Intrusion Detection System (NIDS)

Go, Python, ML, Flutter

- Built a real-time NIDS combining signature-based detection with ML-driven anomaly detection.
- Developed backend in Go with WebSocket streaming and a Flutter dashboard featuring packet capture, IP blocking, and alert notifications.

HisabKitaab – Business Management App

Flutter, Firebase

- Developed mobile app for SMEs to manage inventory, sales, and employees, reducing dependency on costly ERP tools.
- Implemented real-time sync, role-based access control, and secure cloud storage via Firebase.

Sudoku Solver & Game

Flutter, Dart, Backtracking Algorithm

- Developed a playable Sudoku game with an interactive 9×9 grid and responsive UI.
- Implemented **backtracking algorithm** to solve puzzles instantly with validation, reset, and puzzle loading features.

Mobile Image Gallery

Flutter, Dart, GetX, Hive

- Developed a Flutter app that fetches and displays high-quality images from the Unsplash API.
- Implemented clean architecture using Repository Pattern and GetX for state management and routing.
- Integrated local favorites storage using Hive and enabled offline viewing with smooth animations.
- Optimized image loading and caching with `cached_network_image` and shimmer effects for UX.

Technical Skills

Languages: Dart, Python, Go, JavaScript, C, C++, MySQL, Swift

Frameworks: Flutter, ReactJS, SwiftUI

Tools/Platforms: HTML5, CSS3, Docker, Git, Firebase, Appwrite, Postman

Design Tools: Adobe Illustrator, Adobe Photoshop, Canva