

Devit Sah

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EDUCATION

Thapar Institute of Engineering and Technology
Bachelor of Engineering in Computer Science | CGPA: 7.56/10

September 2022 - June 2026


Kathmandu Model College
12 in Computer Science | CGPA: 3.29/4

July 2019 - December 2021


PROJECTS

AI Interview Simulator | Python, Flask, OpenCV, DeepFace, YOLOv8  GitHub

- Built a platform with real-time face detection, emotion analysis, and speech processing, supporting **200+ sessions** and providing interactive feedback using **Flask**.
- Leveraged **OpenCV** and **DeepFace** to achieve **95%+ accuracy** in facial detection and emotion recognition for detailed candidate behavior analysis.
- Used **Ultralytics YOLOv8** to detect multiple persons, mobile phones, and violations like tab switching, cutting incidents by **30%**.

Multithreaded Proxy Web Server | C, Socket Programming  GitHub

- Built a multithreaded web proxy server in C to handle **100+ concurrent HTTP requests** from multiple clients using TCP sockets and efficient I/O operations.
- Applied thread synchronization using **5+ mutex locks** and **400+ semaphores**, along with custom heap memory handling and a time-based LRU cache for optimized performance.
- Achieved up to **5× faster response time** than a sequential implementation by applying optimized parallel processing and resource management techniques.

Event Management System | React, Redux, Nodemailer, Stripe, MongoDB  GitHub

- Designed a shopping cart system with real-time ticket adjustments, lowering booking errors by **35%**.
- Integrated Stripe API to process online payments, successfully handling over **500 transactions**.
- Developed an admin dashboard to track and manage **1,000+ bookings**, streamlining workflow by **40%**.

RESEARCH PROJECTS

DRAGON: Deep Reinforcement-based Account Migration for Optimized Sharding June 2025 - July 2025

- Designed a GATformer-PPO model for blockchain sharding, improving model accuracy by **23%** and embedding diversity by **18%**.
- Created a custom simulation using **30,000 Ethereum transactions** from **1,000+ accounts**, reducing cross-shard transactions by **27%** and shard load variance by **14%**.

POSITIONS OF RESPONSIBILITY

CCS - Executive Member December 2022 - April 2024

Thapar University, Patiala

- Mentored over **1,200 participants** from different colleges for HackTU 5.0.
- Deployed more than **10 websites** built in various stacks on Render and Vercel.

TECHNICAL SKILLS

- **Languages:** C/C++, Python, R, SQL, JavaScript, Socket Programming
- **Frameworks & Databases:** Django, Flask, React, MySQL, MongoDB, AWS
- **Other Technologies:** Git, Docker, Postman, VS Code, Linux, MATLAB
- **Coursework:** Data Structures & Algorithms, Operating Systems, OOP, DBMS, Computer Networks

RELEVANT CERTIFICATIONS

- Introduction to Transformer-Based NLP – NVIDIA
- Software Engineering Virtual Experience – J.P. Morgan Chase & Co
- Natural Language Processing with Classification and Vector Spaces – Coursera