

Cindrella Koju

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Professional Summary

Final-year Computer Engineering student with hands-on experience in Python backend development, RESTful API design, and database architecture. Skilled in FastAPI, PostgreSQL, and building scalable, high-performance systems. Proven track record in hackathons and delivering collaborative projects and currently learning about CI/CD pipeline.

Technical Skills

Programming Languages: Python, TypeScript, JavaScript, C++, C

Backend Technologies: FastAPI, Node.js, Express.js, Django, RESTful API Development

Frontend Technologies: React.js, React Native, HTML5, CSS

Databases: MySQL, PostgreSQL - Database Design & Optimization

Development Tools: Git, GitHub, Docker, Agile/Scrum, Sprint Planning

Soft Skills: Problem Solving, Team Collaboration, Time Management, Self-Motivated Learning

Professional Experience

Backend Developer Intern — Tech Manthan

May 2025 – Present

- Designed and optimized MySQL/PostgreSQL databases for efficient storage, indexing, and retrieval
- Developed RESTful APIs using FastAPI; ensured secure, scalable backend communication
- Integrated backend services with frontend applications for real-time data exchange
- Collaborated in Agile teams; participated in sprint planning, code reviews, and deployment
- Implemented authentication and authorization using JWT

Project Experience & Hackathons

XHack 3.0 | AI-Driven Waste Classification App

Jan 24-26, 2025

- Developed full-stack mobile application integrating machine learning models for real-time waste classification
- Built scalable backend using Node.js and Express.js with efficient API architecture
- Implemented React Native frontend with seamless ML model integration for real-time analysis

Dristi 3.0 | Vehicle Tracking System

Jan 9-11, 2025

- Led full-stack development and database administration for comprehensive vehicle tracking solution
- Optimized MySQL database performance for efficient data storage and retrieval of tracking data
- Developed responsive React.js frontend and robust Node.js/Express.js backend architecture

KU Hackfest 2024 | Traffic Management System (3rd Place)

Nov 15-17, 2024

- Created interactive traffic analytics dashboard with real-time vehicle location tracking
- Implemented advanced data visualization using React.js, Canvas API, and Google Maps API
- Designed user-friendly interface for traffic pattern analysis and historical data visualization

Key Projects

PayAlert — Bill Reminder App

- Developed backend with FastAPI and PostgreSQL designed database schema

- Integrated Khalti payment gateway; implemented JWT authentication
- Built REST APIs for users, payments, and reminders

Secure Chat Application

- Scalable backend for group and one-to-one messaging using FastAPI and MySQL
- JWT authentication and secure API endpoints

PlanPlus — Productivity Platform

- Full-stack app with React frontend, Node.js backend, MySQL database
- Backend-focused architecture, REST API design, and database optimization

Current Working Projects

Ecommerce Website

- Developed backend with Django and PostgreSQL designed database schema
- Integrated Khalti payment gateway
- Role based access
- Added **real-time chat and video call features** using **Django Channels** and **WebRTC**, enabling seamless user communication

Education

Khwopa Engineering College | *Bachelor of Engineering in Computer Engineering*

2022 – 2026 (Expected)

Kanjirowa National Secondary School | *Higher Secondary Education (+2 Science)* | *GPA: 3.33*

2019 – 2021

Achievements & Recognition

- **3rd Place Winner** - KU Hackfest 2024, Kathmandu University (Traffic Management System)
- **Participant** - Dristi 3.0, Kathmandu Engineering College (Vehicle Tracking System)
- **Participant** - XHack 3.0, Purwanchal Campus (AI-Driven Application Development)
- **Participant** - Hult Prize, Khwopa Engineering College (Social Innovation Challenge)
- **Completed** - Graphic Design Masterclass, Udemy (Digital Design Skills)
- **Participant** - Asian Hack, Asian School of Management and Technology
- **Participant** - Acme Tech Fest 2.0, Acme College of IT