

KIRAN PHARAL

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EDUCATION

Orchid International College	2022 - 2026
<i>Bachelor of Science in Computer Science and Information Technology</i>	<i>Kathmandu, Nepal</i>
Global School Of Science	2019 - 2021
<i>+2 Science</i>	<i>Kathmandu, Nepal</i>

SKILLS

- **Programming:** Python, C#
- **Web Development:** HTML, CSS, React, ASP.NET Core
- **Database:** MySQL, SQLite
- **Tools:** VS Code, Git, GitHub, WordPress

PROJECTS

Content-Based Music Recommendation System :

Tech Stack: Python, FastAPI, Scikit-learn, NumPy, Pandas, React.js, SQLite

Key Features

- Built a full-stack music recommendation platform with FastAPI backend and React frontend.
- Implemented content-based recommendations using audio features + cosine similarity with scikit-learn.
- Processed and cleaned large song datasets, applied feature scaling, clustering, and mood labeling.
- Integrated iTunes API + YouTube fallback to fetch artwork, previews, and metadata.
- Developed JWT authentication (login, register, refresh token), Argon2 password hashing, and email verification.
- Added user features: playlists, liked songs, search, and a global audio player.
- Built an admin panel for managing users, playlists, and activity statistics.

Game Store REST API (ASP.NET Core):

Tech Stack: ASP.NET Core Web API, C#, Entity Framework Core, SQL Server, REST Architecture, JSON

Key Features

- REST-based CRUD operations for Game Store data.

- ASP.NET Core Web API with JSON response formatting.
 - Entity Framework Core for ORM and database handling.
 - Data validation using *Data Annotations*.
 - Status-based responses (200, 201, 400, 404).
 - Lightweight, scalable, and easy to extend.
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Expense Tracker REST API (ASP.NET Core)

Tech Stack: ASP.NET Core Web API, C#, Entity Framework Core, SQL Server, LINQ, JSON

Key Features

- Add daily/weekly/monthly expense records.
 - View all expenses or fetch a single expense by ID.
 - Update expenses (amount, title, category, date).
 - Delete unwanted expense entries.
 - Model validation using data annotations.
 - Clean architecture with Entity Framework Core integration.
 - Lightweight API ready for frontend/mobile consumption.
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CERTIFICATIONS

Python and Django

- Broadway Infosys, in collaboration with Orchid International College
- Completed 40-hour training
- Duration: 30th May 2023 – 14th July 2023