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# Roshan Mohapatra

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## Professional Summary

Highly motivated and creative B.Tech (CSE - AIML) student with a passion for music composition and performance. Proven ability to develop technical solutions while maintaining artistic vision. Proficient in Python, FastAPI, and data science tools, with a strong foundation in machine learning and backend development. Experienced in building scalable applications and deploying real-world projects. Eager to contribute to innovative music tech teams and grow as a music technologist in a challenging industry role.

## Skills

### Music & Audio Production

- Music Composition
- Music Theory
- Audio Editing
- MIDI Sequencing
- Sound Design
- Music Notation (Finale, MuseScore)

### Technical Skills

- Python (PyGame, MIDIUtil, NumPy)
- FastAPI
- RESTful API Design
- Git, GitHub
- Postman
- Jupyter Notebook

### Tools & Platforms

- Digital Audio Workstations (DAWs): Ableton Live, Logic Pro
- Music Production Software: FL Studio, Cubase
- Collaboration Tools: Spotify, SoundCloud, BandLab

## Projects

### Music Theory Quiz App

A web application designed to test and improve users' knowledge of music theory.
- Built with FastAPI backend and React.js frontend.
- Implemented REST APIs for question retrieval, user authentication, and score tracking.
- Used Supabase for database integration and user management.

### Backing Track Generator

A tool that generates customizable backing tracks for musicians.
- Developed using Python and FastAPI.
- Integrated with music libraries to generate harmonies and rhythms based on user input.
- Designed with a user-friendly interface for easy access and customization.

### Interactive Music Visualizer

A real-time music visualizer that syncs visuals with audio input.

- Built using Python and PyGame.
- Implemented audio processing libraries to analyze music and generate dynamic visuals.
- Designed for live performances and music events.

# Experience

## Music Production Intern

BADAL Institute of Life Sciences (ILS) | Bhubaneswar, Odisha
*Dec 2024 – Feb 2025*
- Assisted in developing music production tools using Python and FastAPI.
- Collaborated with musicians to create and edit backing tracks.
- Integrated APIs for real-time music visualization and audio processing.

## Backend Developer Intern

NextTech | Bhubaneswar, Odisha
*Feb 2025 – Present*
- Developed REST APIs for a music collaboration platform using FastAPI.
- Implemented user authentication and role-based access control.
- Collaborated with the design team to ensure seamless user experience.

# Education

## GITA Autonomous College

B.Tech in Computer Science and Engineering (Artificial Intelligence and Machine Learning)
*2022 – Present*
- Minor in Music Theory
- Secured an average of 85% in 3 years

## Kendrapara Public School

12th
*2020 – 2022*
- Secured 85%

## Kendrapara Public School

10th
*2020*
- Secured 83%

# Certifications

- **Music Theory Fundamentals** – Coursera
- **Python for Music Production** – Udemy
- **REST API Development** – FreeCodeCamp
- **AI for Music Production** – Coursera
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