

# RAMNATH THAKUR

DOB: 22 Feb 2006    Janakpur, Dhanusha, Province 2

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## Education

### National Institute of Technology, Rourkela

*Bachelor of Technology in Computer Science and Engineering (CGPA - 7.21)*

August 2023 – Present

*Rourkela, Odisha*

### Mithila Institute of Technology

*NEB, Science (PCM) (Percentage - 82.5%)*

May 2022

*Janakpur*

### Mithila Institute of Technology

*NEB (Percentage - 96%)*

May 2020

*Janakpur*

## Relevant Coursework

- Data Structures
- Database Management
- Object Oriented Programming
- Algorithms

## Projects

### Dumbledore - AI Powered Knowledge Assistant 🔗

June, 2025

*NextJS, Clerk, Supabase, Vapi*

*GitHub*

- Constructed an AI voice tutor using Next.js, GPT-4, ElevenLabs, and Vapi; enabling real-time **two-way conversations** with adaptive tone and **interruption detection**.
- Deployed **feature gating** using Supabase, with Clerk integration for user access control and billing, enabling segmented rollouts and A/B testing of new features, improving adoption rate.
- Engineered four distinct AI voice profiles, including male and female options in both formal and casual tones—which increased user engagement and contributed to a significant reduction in reported user interface issues.
- Set up centralized error monitoring with Sentry, streamlining bug detection and reducing debugging time across the team, as the most junior member.

### OnlyBucks- Full Stack Subscription Platform. 🔗

May, 2025

*NextJS, Schematic, Stripe, Sanity*

*GitHub*

- Architected a tiered content platform, allowing creators to launch exclusive content across **three membership levels** and boosting user engagement by personalized experiences.
- Engineered secure subscription billing for a content platform using **Stripe** via Schematic; automated access control across 3 content tiers, achieving zero security breaches yet.
- Deployed a secure, **role-based authentication** system via Clerk and Sanity within the creator dashboard, granting tier-specific feature visibility and reducing unauthorized access attempts within the platform.

### Personalized Movie Recommendation Platform 🔗

March 2025

*React.js, Appwrite, Tailwind CSS, Vite*

*GitHub*

- Pioneered a movie recommendation web application utilizing ReactJS and Tailwind CSS, delivering individualized suggestions based on **past searching behavior** to improve user experience and retention.
- Integrated the TMDb API for real-time film data, including **trailer playback**, and implemented a *trending* section using Appwrite to track and showcase the most searched titles.
- Strengthened the search functionality by applying **debounced input** logic, reducing redundant API requests by 60 percent and accelerating result delivery to enhance user experience and engagement.

## Technical Skills

- **Languages:** Python, C++, JavaScript (ES6+), Bash
- **Developer Tools:** VS Code, Git, Google Cloud, Linux, Docker
- **Technologies/Frameworks:** NextJS, NodeJS, ReactJS, Tailwind, Hono, Bun, Clerk, Zod, RESTful APIs

## Extracurricular Activities

### Innovision

November 2024

*Coordinator*

*NIT Rourkela*

- Led a 30-member chapter, coordinated top-rated coding and fun events, and managed a 5-member board to drive fest planning and coding culture.