

# Priyanshu Samal

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## Education

International Institute of Information Technology, Bhubaneswar	Bhubaneswar, India
Bachelor of Technology in Computer Science and Engineering • CGPA: 8.34	2023 – 2027
Kendriya Vidyalaya No.1 Bhubaneswar	Bhubaneswar, India
Higher Secondary Education • Grade 10: 91.8% • Grade 12: 94.6%	Apr 2019 – May 2022

## Experience

Backend Developer	Nov. 2024 – Dec. 2024
Aveti Learning	Hybrid
<ul style="list-style-type: none"><li>Architected scalable YouTube thumbnail generator using <b>FastAPI</b> with RESTful API endpoints, integrating <b>FFmpeg</b> for video frame extraction and applying intelligent image scoring algorithms with <b>Celery</b> for distributed processing</li><li>Engineered <b>Redis</b> integration as message broker for <b>Celery</b> task queue, optimizing workflow processing efficiency and reducing processing time by <b>40%</b></li></ul>	

## Projects

YouTube Clone Full Stack Application	🐙 GitHub	Jun 2025
<ul style="list-style-type: none"><li>Engineered comprehensive <b>video streaming platform</b> with <b>microservices architecture</b> featuring <b>AWS Cognito authentication</b>, access/refresh tokens with HMAC authentication, and end-to-end video processing pipeline</li><li>Designed robust upload workflow using <b>S3 storage</b>, <b>SQS messaging</b>, containerized video transcoding with <b>FFmpeg</b> on <b>AWS Fargate</b>, implementing <b>HLS streaming</b> with adaptive bitrate for optimal multi-device viewing experience</li><li>Integrated <b>CloudFront CDN</b> and <b>Redis caching</b> for global content delivery optimization, achieving <b>60% improvement</b> in response times</li></ul>		
Spotify Clone Music Streaming App	🐙 GitHub	May 2025
<ul style="list-style-type: none"><li>Developed full-stack <b>music streaming application</b> with secure <b>JWT authentication</b>, RESTful APIs, file upload functionality, and comprehensive music library management system</li><li>Implemented <b>Riverpod state management</b> and <b>Hive local database</b> for efficient app state control, <b>offline access</b>, recent plays tracking, and personalized user preferences</li><li>Created responsive music player UI with persistent mini-player, <b>background audio playback</b> with notification controls enabling seamless music continuation, and <b>FastAPI backend</b> integrated with <b>PostgreSQL</b> using SQLAlchemy ORM achieving <b>~300ms response time</b></li></ul>		
BlueDove Financial Tracker Backend	🐙 GitHub	Apr 2025 – Jul 2025
<ul style="list-style-type: none"><li><b>Freelance Project:</b> Developed <b>FastAPI backend</b> for React Native application managing financial ledgers and tracking pending amounts for <b>1,550+ companies</b>, automating Excel-based manual processes with <b>100% data accuracy</b></li><li>Implemented comprehensive <b>MongoDB</b> database operations with CSV upload/update functionality, automated backup system, restore capabilities, and detailed <b>audit trail tracking</b> for complete data management</li><li>Deployed scalable backend on <b>Railway platform</b> with modular architecture featuring pagination, <b>Firebase Cloud Messaging</b> for real-time notifications, comprehensive history tracking, and intelligent change detection for complete financial transaction visibility</li></ul>		

## Achievements

Techfest IIT Bombay 2024 – Finalist, top 10 teams selected from 500+ nationwide participants	Dec 2024
Ethos Hackathon, IIT Guwahati 2024 – Finalist, top 20 teams selected nationwide	Oct 2024
D <sup>8</sup> Hackathon, IIIT Bhubaneswar 2024 – 3rd Place in annual technological fest main hackathon	Nov 2024
PRAVAAH 2025, IIT Bhubaneswar – 2nd Place in Robo Soccer competition in annual fest	Apr 2025

## Technical Skills

**Programming Languages:** Python, Dart, C, C++, SQL  
**Mobile Development:** Flutter, Bloc Pattern, Riverpod State Management  
**Backend Development:** FastAPI, RESTful APIs, Microservices Architecture, API Development, System Design  
**Database Technologies:** PostgreSQL, MongoDB, Redis, Hive, SQLAlchemy ORM  
**Cloud & DevOps:** Amazon Web Services (AWS), Docker, Railway Platform  
**Development Tools:** Git, GitHub, Celery, FFmpeg, Apache Kafka