

Prithwjit Ghosh

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Software engineering graduate with expertise in web development and artificial intelligence. Skilled in JavaScript frameworks (Node.js, Next.js), Python, and machine learning technologies. Specializes in designing scalable solutions and developing AI-powered projects that enhance user engagement and system performance. Committed to creating innovative, technically advanced applications that solve complex challenges.

EDUCATION

Techno India University

Bachelor of Technology in Computer Science with AI

Kolkata, WB

Aug. 2021 – 2025

PROJECTS

NextRead | React, Node.js, MongoDB, AWS

September 2024 – Present

- Architected and deployed a scalable MERN stack application serving 10k+ monthly active users
- Engineered an ML-based recommendation engine using collaborative filtering, driving 40% increase in user retention
- Built RESTful APIs integrating Google Books and OpenLibrary, processing 100k+ daily requests with 99.9% uptime
- Implemented real-time messaging using Socket.io and Redis pub/sub, handling 1000+ concurrent users with <100ms latency

Luna | Python, CUDA, OpenCV

August 2024

- Developed a CUDA-accelerated image processing pipeline for analyzing Permanently Shadowed Regions (PSR) in lunar imagery
- Engineered custom denoising algorithms achieving 60% SNR improvement in ultra-low-light conditions
- Created automated mapping system processing 2TB+ of Chandrayaan-2 OHRC data with 4x performance improvement
- Open-sourced comprehensive lunar pole mapping toolset, adopted by 3 research institutions

Epiphany | Next.js, Go, Clerk, Convex

June 2023

- Built microservices architecture handling 5k+ concurrent users with 500ms response time
- Implemented ML-driven study path optimization resulting in 15% improved student performance metrics
- Designed scalable database schema in Convex supporting 100k+ student records with efficient querying
- Developed GPT-powered chatbot handling 1000+ daily queries with 92% resolution rate

Meetopia | Next.js 14, Stream SDK

June 2023

- Engineered WebRTC-based video conferencing solution supporting 50+ participants per room with HD quality
- Implemented end-to-end encryption and SOC2 compliant authentication using Clerk
- Built responsive UI with Tailwind CSS, achieving 98% cross-browser compatibility
- Optimized media streaming reducing bandwidth usage by 40% while maintaining video quality

HONORS & AWARDS

AI Unite Hackathon - Winners

Team: The Last of Us | Project: "Epiphany" - AI-powered academic dashboard

Kolkata, West Bengal

June 2024

Smart India Hackathon - Runner-Up

Team: quantumFrost | Project: "Myrtle" - Image Recognition Model using AI/ML Techniques

Kolkata, West Bengal

October 2023

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, Go

Frameworks **Big Data:** React, Next.js, YOLO, Hadoop, Spark, Kafka, MongoDB, Kubernetes

Tools: Git, Docker, GCP, AWS, VS Code, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib