

Prithwjit Ghosh

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Computer science graduate specializing in platform engineering and AI/ML development. Experienced in building scalable applications using modern cloud technologies. Proficient in full-stack development with strong foundations in data structures, algorithms, and OOP. Demonstrated machine learning expertise through award-winning projects. Passionate about clean code, continuous learning, and open-source contributions.

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, TypeScript, SQL, Node.js

Frameworks & Technologies: React, Next.js, MongoDB, Redis, PostgreSQL, OOPS, Data Structures, Algorithms

Tools & Platforms: Git, Docker, AWS, GCP, VS Code, SDLC, Agile

EDUCATION

Techno India University

Bachelor of Technology in Computer Science with AI • CGPA: 8.35

Kolkata, WB

August 2021 – August 2025

PROJECTS

NextRead | *React, Node.js, MongoDB, AWS*

September 2024

- Built a MERN stack application to provide a platform for book recommendations.
- Implemented a recommendation engine to improve user engagement.
- Integrated APIs to access and process book data.
- Built real-time messaging to facilitate user interaction.

Luna | *Python, CUDA, OpenCV*

August 2024

- Developed an image processing pipeline using CUDA to analyze lunar imagery.
- Developed denoising algorithms to improve image quality in low-light conditions.
- Built a mapping system to process and analyze lunar data.
- Created an open-source toolset to support lunar research.

Epiphany | *Next.js, Go, Clerk, Convex*

June 2023

- Developed a microservices architecture to support a learning platform.
- Implemented study path optimization to enhance student performance.
- Designed a database schema to manage student records.
- Built a chatbot to answer student queries.

Meetopia | *Next.js 14, Stream SDK*

June 2023

- Developed a video conferencing solution using WebRTC to enable real-time communication.
- Implemented security and authentication features to protect user data.
- Created a user interface to provide a seamless user experience.
- Optimized media streaming to improve performance.

CERTIFICATIONS

e-Yantra by IIT Bombay - Embedded Systems

Comprehensive training in embedded systems design, robotics, and IoT applications

August

2023

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