

Rajat Prakash Dhal

Software Engineer | Full-Stack & DevOps Developer

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Profile

Entry-level Software Engineer with hands-on experience in Full-Stack Development and DevOps practices. Skilled in building scalable web applications with React, Node.js, Firebase, and Docker. Experienced in cloud deployment, CI/CD automation, problem-solving, and collaboration in team projects.

Technical Skills

Languages: JavaScript, TypeScript, Python

Front-End: React, Next.js, HTML5, CSS3, Tailwind CSS

Back-End: Node.js, Express.js, REST APIs, WebSockets

Databases: MongoDB, PostgreSQL, Redis, Firebase

DevOps / Cloud: Git, Docker, GitHub Actions, CI/CD, AWS (EC2, S3, Lightsail), Firebase Hosting

Tools / Platforms: Vercel, Stripe, PayPal

Experience

Hackathon Participant, Metadome.ai

Dec 2024

Participation Certificate

- Developed AI-powered story generator using **BLIP + GPT-2**, demonstrating problem-solving and software engineering skills.
- Built interactive UI with **Streamlit + PyTorch** for real-time content generation.
- Delivered a functional MVP in 24 hours, collaborating effectively with team members.

Projects

Quiz Web App with Real-Time Leaderboards

React, Firebase

[GitHub Repo](#)

- Full-Stack development of a scalable quiz app supporting 500+ concurrent users with **Realtime Database**.
- Reduced admin management time by 40% through a custom admin panel.
- Implemented secure authentication with **Firebase Auth**.

Real-Time Chat Application

WebSockets, Redis, MongoDB

[GitHub Repo](#)

- Developed chat system handling 500+ concurrent users using **Redis pub/sub**.
- Ensured <200ms backend latency with persistent storage in **MongoDB**.

Online Compiler Platform

Docker, AWS Lightsail

[GitHub Repo](#)

- Full-Stack web-based code runner using Docker containers for isolated execution.
- Automated deployment using **AWS Lightsail** and CI/CD pipelines.

E-commerce Platform

MERN, Next.js, PostgreSQL, Redis

[GitHub Repo](#)

- Full-Stack platform with product catalog, shopping cart, and orders.
- Integrated **Stripe & PayPal** for secure payments; optimized caching with **Redis**.
- Implemented search (**Algolia**) and media storage (**Cloudinary/S3**); deployed via **Vercel** with Docker CI/CD.

Education

B.E. in Computer Science Engineering, HKBK College of Engineering

2022 – 2026

CGPA: 9.0

- Coursework: Data Structures & Algorithms, DBMS, Cloud Computing, Software Engineering.
- Led 3+ group projects and coding workshops, demonstrating collaboration and problem-solving.

Class XII (PCM + CS), Kendriya Vidyalaya DRDO

2021

Percentage: 80.2%

Class X, Kendriya Vidyalaya AFS, Bareilly

2019

Percentage: 82.2%