

Pratham Raj

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Education

Heritage Institute of Technology, Kolkata, India

CGPA: 9.3/10

Millia Convent English School, Purnea, Bihar, India

Percentage: 74.5%

B.Tech in Computer Science, 5th Semester

Jan 2025

Senior Secondary (PCM)

June 2019 – August 2021

Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks

Technical Skills

Languages: C++, Python, JavaScript, TypeScript, SQL, HTML/CSS

Frameworks & Libraries: React.js, Node.js, Express.js, Flask, Prisma, Pandas, NumPy, Matplotlib, Seaborn

Databases: MongoDB, PostgreSQL, SQL

Tools & Platforms: Docker, Cloudflare, MongoDB Atlas, Cloudinary, VS Code, Postman, Jupyter

Projects

Personal Portfolio Website

[Source Code](#) | [Live Demo](#)

Technologies: React, Node.js, Express.js, MongoDB, Cloudinary, Nodemailer

- Engineered a dynamic and responsive portfolio website to exhibit skills, projects, education, and certifications.
- Integrated admin-only project upload functionality with email OTP verification and Cloudinary image hosting.
- Automated contact form communication using Nodemailer APIs ensuring 100% uptime in real-time user interactions.
- Achieved complete cross-device responsiveness improving user experience by 25%.

Student Data Analysis Platform

[Source Code](#)

Technologies: Python, Flask, Pandas, NumPy, Matplotlib, Seaborn

- Designed a full-stack analytical platform to analyze academic and extracurricular data of students.
- Visualized key insights via interactive charts and graphs using Matplotlib and Seaborn libraries.

Spotify Clone

[Source Code](#)

Technologies: HTML, CSS, JavaScript, Node.js, Express, MongoDB, JWT

- Developed a fully functional Spotify-like clone with music playback, authentication, and playlist creation.
- Implemented secure user authentication using JWT and MongoDB for scalable database management.
- Optimized frontend responsiveness and UX for both mobile and desktop users.

Achievements

- Ranked in the **Top 9.17%** globally among **34,988+** contestants on GeeksforGeeks with a Contest Rating of **1792**.
- Achieved **Global Rank 3209** and **Institutional Rank 115** at Heritage Institute of Technology, Kolkata.
- Awarded a **Certificate of Excellence** as **Second Runner-up** in **Code2Career Coding Arena** (Unstop), conducted by **Lets Code Community**. [[Certificate Link](#)]

Certifications

Complete DSA Course (PW Skills)

[Certificate](#)

- Mastered fundamental and advanced concepts of Data Structures, Algorithms.

- Gained expertise in RESTful API development, API automation testing, and advanced API lifecycle management using Postman.