Rahul Pal

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Career Objective

Analytical **B.Tech Computer Science & Engineering** student (6th Semester) at **Brainware University** with a primary focus on **Full-Stack Development** and **Backend Engineering**. Proven expertise in architecting robust database systems using **MySQL** and implementing backend logic with **Python** and **Java**. Experienced in building interactive front-end interfaces with **React** and developing **Chrome Extensions**. Strong foundational knowledge in **DBMS** and **Computer Networks**, with a commitment to writing clean, scalable code and collaborating through **Git/GitHub**.

Education

Name of the Institute	Degree	Board	Percentage	Year
Brainware University	Bachelor of Technology, Computer Science & Engineering		8.07/10 SGPA (5th Semester)	2023-2027
Anandanagar High School	12th (Senior Secondary Examination)	West Bengal State Council of Technical & Vocational Education & Skill Development	60.80%	2017
Bally Nischinda Chittaranjan Vidyalay	10th (Secondary Examination)	West Bengal State Council of Technical & Vocational Education & Skill Development	37.57%	2015

Projects

LIBRARY DATABASE MANAGEMENT SYSTEM (DBMS)

- **Developed** a robust management system to automate library operations, including book issuance, returns, and inventory tracking.

- **Designed and Implemented** efficient database schemas using MySQL to ensure data integrity and optimized query performance.

- **Built** a user-friendly interface to manage member records and real-time availability of resources, reducing manual paperwork.

- **Utilized** Python for back-end logic, integrating the application with the database for seamless data flow.

- **Live Demo:** https://goldlion123rp.github.io/Library_DBMS/

INTERVIEW-CHATBOT

- **Architected** a responsive web-based chatbot designed to simulate professional interview environments for career preparation.

- **Leveraged React** to build a dynamic and interactive user interface, ensuring a seamless experience across different devices.

- **Integrated** front-end logic with deployment pipelines using **GitHub Pages** to host a live, accessible version of the application.

- **Implemented** modular code structures to allow for easy scaling and future integration of AI-driven response systems.

- **Live Demo:** https://goldlion123rp.github.io/Interview-Chatbot/

Technical Skills

Category	Skills & Tools	Application / Context
Programming	C, Python, Java, JavaScript	Core languages used across various academic and personal projects.
Web Development	HTML5, CSS3, React, PWA	Building responsive web applications and Progressive Web App templates.
Version Control	Git, GitHub, GitHub Pages	Managing source code, collaborating on repositories, and deploying live sites.
Specialized Tools	Chrome Extensions, VS Code	Developing browser-based utilities and using industry-standard IDEs.
Core CSE Subjects	DBMS, Computer Networks	Theoretical foundation applied to database management and networking projects.

Soft Skills

Skill	Context / Application
Problem Solver	Debugging complex algorithms and optimizing code efficiency.
Team Worker	Collaborating via Git/GitHub on group development projects.
Leadership	Managing project timelines and mentoring junior team members.
Technical Writing	Creating clear documentation and README files for software projects.
Active Listening	Understanding user requirements to build better UI/UX solutions.

Language Known

Languages	Read	Write	Speak
Bengali	Yes	Yes	Yes
English	Yes	Yes	Yes
Hindi	-	-	Yes

Hobbies

Hobby	Description	Value to My Career
Chess	Strategic board gaming involving complex pattern recognition.	Enhances logical reasoning, foresight, and tactical problem-solving.
Online Gaming	Competitive and cooperative multiplayer gaming.	Develops quick decision-making, team coordination, and adaptability.
UI/UX Experimentation	Designing and prototyping user interfaces for web and mobile apps.	Improves user-centric thinking and the ability to create intuitive software.
Open Source Contribution	Exploring and contributing to community-driven codebases via GitHub.	Demonstrates a passion for collaborative development and version control.

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