

SARTHAK TRIPATHI

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PROFESSIONAL SUMMARY

Computer Science Engineering student specializing in Education Technology with hands-on experience in full-stack web development, database design, and QR code-based system development. Proven track record of building scalable applications serving 500+ users with focus on improving educational processes and student-faculty communication. Proficient in Java, JavaScript, Python, PHP, and modern web technologies with expertise in agile development and software engineering principles.

EDUCATION

VIT Bhopal University, Bhopal

B.Tech - Computer Science and Engineering with specialization in Education Technology

2022 – Present

GPA: 8.14

Jai Academy, Jhansi

Higher Secondary School, CBSE Board

2020 – 2022

Percentage: 70%

Jai Academy, Jhansi

Senior Secondary School, CBSE Board

2008 – 2020

Percentage: 91%

COURSEWORK / SKILLS

- Data Structures and Algorithms
- Object-Oriented Programming (OOP)
- Database Management Systems (DBMS)
- Operating Systems
- Computer Networks
- Web Development

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, PHP, SQL, HTML5, CSS3.

Technologies/Frameworks: ReactJS, Node.js, Express.js, REST APIs, Bootstrap, Responsive Design.

Database: MySQL, Database Design, Query Optimization, Relational Database Management.

Tools & Platforms: Git, GitHub Actions, Visual Studio Code, XAMPP, Postman, Linux, Agile Development.

PROJECTS

Know My Status [🔗](#) | [PHP](#), [MySQL](#), [Node.js](#)

2024

- Engineered a QR code-based teacher status monitoring system using PHP, MySQL, and phpqrcode library, implementing real-time database updates and reducing student wait times by 15 minutes daily across 200+ faculty members.
- Developed and deployed a mobile-responsive web application with QR code generation and scanning functionality, enabling instant access to teacher availability status and improving student-faculty communication efficiency by 60%.
- Implemented secure authentication system and optimized database queries for real-time status updates, supporting concurrent access for 500+ students with 99% uptime reliability.

VIT Exam Portal [🔗](#) | [JavaScript](#), [HTML5](#), [CSS3](#), [PHP](#), [MySQL](#), [Resend API](#)

2023

- Built and deployed a comprehensive examination management system using JavaScript, PHP, MySQL, and Resend API, serving 500+ students with automated exam scheduling and notification features.
- Designed and implemented automated email notification system with Python integration, reducing manual administrative workload by 40% and decreasing student inquiries regarding exam schedules by 30%.
- Developed responsive user interface with secure authentication, file upload functionality for previous year papers, and integrated note-sharing system, improving student exam preparation efficiency by 25%.

CERTIFICATES & ACHIEVEMENTS

- Swayam NPTEL Cloud Computing - Advanced Cloud Technologies and Deployment.
- Human Cognitive Capacities & Limitations by Arizona State University.
- Creating a Voice Assistant by Cognitive Class.ai - AI and Natural Language Processing.
- Applied Machine Learning in Python by University Of Michigan - Data Science and ML.