

# Abhishek Patidar

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## Skills

**Languages:** C/C++, Python, JavaScript, SQL

**Technologies & Tools:** HTML, CSS, Bootstrap, Tailwind CSS, ReactJS, Next.js, Node.js, MongoDB, Express.js, Git, GitHub, WordPress, OOPs, Operating System, Data Structure and Algorithms(DSA), DBMS, Computer Networks, Big Data Analytics, Machine Learning, NLP, System Design.

## Education

**IIIT Gwalior**

Aug 2023 - Present

M.Tech in Computer Science and Engineering

**CGPA: 8.61/10**

Relevant Coursework: Implementation Techniques of Algorithms, Computer Networks and Security, Fundamentals of Cryptography, Big Data, Machine Learning, Software System Design

## Work Experience

**Designing World Pvt. Ltd., Remote**

June 2021 - Sept 2021

**Web developer, WordPress Backend Developer**

- Collaborated with a multidisciplinary team of 10+ designers, developers, and system administrators, leading to improvement of 25% in project delivery timelines.
- Created web platform back ends using WordPress and Python frameworks, supporting 100k+ monthly active users and improving system stability by 40%.
- Built server-side logic in Python and JavaScript, enhancing application performance by 50% and reducing error rates by 20%.
- Integrated front-end elements into applications, ensuring seamless functionality and boosting user engagement by 15%.
- WordPress, HTML, CSS, JavaScript, jQuery, Bootstrap, ReactJS, MySQL, System Design

## Project Work

- **Smart Task Manager:** Designed a full-stack task management web app enabling users to efficiently create, update, delete, and categorize tasks. Features a timeline view to visualize 100+ tasks across different timeframes per assignee, supports real-time updates with 99% uptime, and ensures a seamless experience with mobile-first responsive design. Reduced task retrieval time by 40% using optimized API calls. React (Next.js), Tailwind CSS, Zustand, Node.js, Express.js, MongoDB. [Project Link](#)
- **Touch-Retouch:** Developed a web-based image retouching platform supporting secure authentication and efficient management of 100+ images, with real-time processing for up to 20 concurrent users. Designed a responsive UI with 99% device compatibility, enhancing user accessibility and engagement. JavaScript, PHP, MySQL. [Project Link](#)
- **NewsThreads:** Built a scalable React application for news aggregation and analysis, featuring real-time updates, API rendering, and responsive design. Optimized API response time to under 300ms and Crafted advanced state management to handle over 500+ articles across 10+ devices. JavaScript, Bootstrap, ReactJS. [Project Link](#)
- **DDoS Detection System:** Implemented a machine learning based pipeline achieving 98.7% accuracy in detecting DDoS attacks. Processed 1M+ records in CIC-DDoS2019 and SDN-Dataset. Applied PCA for feature reduction and ensemble techniques for scalability. Findings published in a Springer Journal conference paper. Python, Scikit-learn, Pandas. [Project Link](#)

## Achievements and Certificates

- Qualified **GATE-2023 (CSE)**.
- HackerRank Badges: Gold (C++, SQL), Silver (Problem Solving, Python).
- Certifications: Fundamentals of C++ (Coding Ninjas), Web Development (Udemy), Programming with Python (Internshala), Web Development Intern (Designing World).

## Extra-Curricular

- Volunteered at International Conference CVMI-2023.
- Submitted a paper on "Empowering DDoS Resilience: Machine Learning Strategies for Enhanced Cybersecurity" to Springer Journal.