# NIKHIL DUBEY

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## EDUCATION

**Indian Institute of Information Technology, Allahabad**                    Aug. 2020 – June. 2024
*BTech in Information Technology*

## EXPERIENCE

**Software Development Engineer**                                           Feb 2025 – Present
*Vision InfoTech(SmartOnline Exam), Alwar, Rajasthan*

- Resolved Redux-Saga race conditions in Various Tasks CRUD flows using an **onSuccess callback-based flow and API synchronization** strategy.
- Architected scalable frontend systems with **Next.js**, **TypeScript**, SSR, and modular routing for rapid delivery.
- Integrated and tested REST APIs using **Swagger** and **Postman**, ensuring consistent API-contracts with backend teams.
- **Tech Stack:** JavaScript (ES6+), React.js, Next.js, TypeScript, Redux, Redux-Saga, Tailwind CSS, REST APIs, Swagger, Postman

**Full Stack Developer**                                                    July 2024 – Jan2025
*WYWID ZONE PRIVATE LIMITED, Dwarka New Delhi*

- Integrated resort booking engine with 3 OTAs (e.g., **Booking.com, Expedia**) using **RabbitMQ-based message queues**, reducing double-booking issues by **85%** and automating **200+ daily sync operations**.
- Implemented real-time room status updates using **Socket.io** and **Redis Pub/Sub**, enabling live housekeeping dashboards and reducing guest wait times by **40%**.
- Developed **RESTful APIs** using **Node.js (Express)** and connected **SQL** for handling bookings, guest data, and resort operations.
- **Tech Stack:** Node.js, Express.js, React.js, SQL, JavaScript (ES6+), TypeScript, REST APIs, RabbitMQ, Redis, Socket.io, Postman, Git, Docker.

**Ethical Hacking and Penetration Testing**                                 May 2024 – Jun2024
*C-DAC (Ministry of Electronics and Information Technology), Govt. of India*

- Performed exploitation techniques including **content-type bypass, path traversal, blacklist validation bypass**,and RCE.
- Implemented mitigation strategies like **file type validation, directory permission controls, server-side file checks**, and **safe file naming** to secure the application.
- **Tools/Tech Used:** Kali Linux, VMware, Burp Suite, HTML, CSS, PHP, Apache, OWASP Labs

## PROJECTS

**MERN Stack Project-Chat Web Application** ⎘LINK

- Built a real-time chat application using the MERN stack with SQL as the database, enabling users to register, log in, and engage in private or group conversations with persistent chat history.
- Integrated **Socket.io** for real-time messaging, supporting instant message delivery, typing indicators & online presence tracking.
- Developed a clean, responsive user interface using **React and Redux**, ensuring smooth UX and efficient state management.
- Designed secure backend APIs with **Node.js and Express**, and implemented relational data management using **SQL** for storing users, messages, and chat room data.
- **Tech Stack:** MERN – SQL, Express, React, Node.js, Redux, Socket.io

**Major Project- Automation Synthesis of Human Face from Text** ⎘LINK

- Developed a deep learning model using BERT and GAN to generate human faces from text descriptions.
- Utilized the CelebA dataset with 202,599 images and 40 attribute annotations per image.
- Achieved an Inception Score of 5.3 and a Fréchet Inception Distance (FID) of 60.79.
- Created a Streamlit web application for real-time face generation.
- **Tech Stack:** Python, TensorFlow, PyTorch, BERT, GAN, Streamlit, Hugging Face Transformers, OpenCV.

## TECHNICAL SKILLS & TOOLS

- **Programming Languages:** C++, Python, JavaScript, SQL, HTML
- **Web & Frameworks:** React.js, Tailwind CSS
- **Tools & Platforms:** Git, GitHub, Visual Studio Code, Postman, MySQL, VMware, VPN, Wireshark, Burp Suite, Firewall
- **Operating Systems:** Linux (Ubuntu), Kali Linux, Windows
- **Coursework:** Data Structures and Algorithms, DBMS, Operating Systems, Object-Oriented Programming, Networking Administration, IoT with Cloud

## CODING PROFILES

- **LeetCode:** Solved 460+ problems demonstrating strong problem-solving abilities. ⎘**LINK**
- **GeeksforGeeks:** Solved 300+ problems showcasing a solid grasp of core CS topics. ⎘**LINK**
- **Coding Ninjas:** Solved 200+ problems across various data structures and algorithms. ⎘**LINK**

## ACHIEVEMENTS & POSITION OF RESPONSIBILITIES

- Solved 700+ Data Structures and Algorithms questions across platforms, demonstrating a consistent record of coding proficiency and improvement.
- Certificate from C-DAC, Noida, Ministry of Electronics & IT in CyberSecurity (Ethical Hacking & Testing), Govt. of India. ⎘**LINK**
- Python AddON Certificate during Academic. ⎘**LINK**