# Abhishek Kumar Pandey

📞 +91 7633909155  ✉ ababhishek3005@gmail.com  🔗 linkedin.com/in/abhishek-k-0181b5229/  ⭘ github.com/BLITzZ0

**Summary** — MCA graduate with hands-on experience in full-stack web development using the MERN stack, RESTful API design, real-time systems, and network-based applications. Passionate about building scalable and secure software to solve real-world problems.

## Education

**Amity University Jharkhand, Ranchi(Jharkhand)**
*Master's in Computer Applications*
*Year: 2023 - 2025*
*CGPA:8.7/10*

**NSHM Knowledge Campus, Durgapur(West Bengal)**
*Bachelor's in Computer Applications*
*Year: 2020 - 2023*
*CGPA: 9.0/10*

## Skills

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|---|---|---|---|
| **Languages** | C++, JavaScript, HTML, Python, SQL | **Cloud/Data Tools** | GCP (BigQuery), Kafka, Git |
| **Databases** | SQL, MongoDB, PostgreSQL, MySQL | **Tools** | Visual Studio, Jupyter, GitHub, Postman |
| **Runtime/Platform** | Node.js, Arduino | **Libraries /Frameworks** | React, Express.js, Flask |

## Internship

**National Informatics Centre (NIC)**                               **June 2024 – September 2024**
*Software Development Trainee*

<u>Tenant Management System</u>

– Developed a full-stack web-based Tenant Management System using HTML, CSS, JavaScript, PHP, and MySQL. Built responsive UI and secure backend modules for CRUD operations.

## Projects

**QTrack: Smart Queue Management System**                                                    **2025**

– Engineered a smart queue automation platform handling real-time appointment bookings using WebSockets and JWT-based authentication.
– Integrated role-based access control (RBAC) and RESTful APIs for scalable, modular backend functionality.
– Tech Stack: React.js, Tailwind CSS, Node.js, Express.js, MongoDB, JWT, bcrypt, Socket.IO

**DDAS: Data Download Duplication Alert System**                                              **2024**

– Designed a duplication detection system that reduced redundant file downloads by 60%, using metadata hashing (MD5/SHA) and network traffic monitoring via TCP/IP.
– Tech Stack: Python, TCP/IP, Hashing

**AquaMesh: Smart Real-Time Irrigation System**                                              **2024**

– Developed an IoT-based irrigation platform to automate water scheduling based on soil moisture using Arduino sensors.
– Leveraged Flask API and Kafka message queues for real-time communication; implemented route optimization with Dijkstra's algorithm.
– Tech Stack: Python, Arduino, Kafka, Flask, MongoDB, Dijkstra's Algorithm

## Certifications

– Software Engineering Virtual Experience Program:                                    Certificate Link
– Agile Methodology Virtual Experience Program:                                       Certificate Link

## Achievements

– **Smart India Hackathon 2024 Finalist**                                             Certificate Link

## Extra-Curricular Activities

– Data Structures & Algorithms: Solving 300+ problems on **LeetCode**