Abhinav Mishra

📞 +91 8423801469   ✉ abhinavkm2810@gmail.com   in LinkedIn   ⚙ GitHub
Portfolio

Professional Summary

Software Engineer with strong foundations in Data Structures, DBMS, and System Design, experienced in building scalable, real-time, and API-driven applications. Proficient in backend development, database optimization, and delivering reliable software solutions.

Education

Dr. A.P.J. Abdul Kalam Technical University	Expected May 2027
B.Tech in Computer Science and Engineering	SGPA: 8.04

Kendriya Vidyalaya	Aug 2022
Senior Secondary (Class XII)	80%

Projects

IBTS – Intelligent Bus Transportation System — Dec 2025 – Mar 2026
GitHub Repository
React.js, Node.js, Express.js, MongoDB, Firebase

- Developed a scalable full-stack platform for government bus route discovery and management.
- Implemented REST APIs handling 100+ dynamic queries with optimized response time.
- Designed MongoDB schemas for buses, routes, and users ensuring efficient query performance.
- Integrated frontend with backend APIs for seamless end-to-end functionality.

Post-Quantum Cryptography Based Cloud Storage System — Feb 2026 – Present
GitHub Repository
Node.js, Express, Python, MongoDB, AES, CRYSTALS-Kyber

- Building a secure cloud storage system with encrypted file storage and retrieval.
- Implementing hybrid encryption using AES for data and Kyber for secure key exchange.
- Designing microservices architecture with a Python-based cryptographic service.
- Developing secure file upload, authentication, and metadata handling workflows.

KISAN – TomatoLeafAI — Aug 2025 – Dec 2025
GitHub Repository
Python, TensorFlow Lite, CNN, Flask, AWS

- Engineered a CNN-based system for tomato leaf disease detection.
- Enabled real-time predictions via a browser-based interface.
- Achieved 90% accuracy, improving early disease detection and reducing crop loss.

Skills

Languages: Python, Java, C, JavaScript
Backend: Node.js, Express.js, Flask
Frontend: HTML5, CSS3, React.js
Databases: MySQL, MongoDB
Tools & Platforms: Git, GitHub, VS Code, AWS, Firebase, Postman, Docker
Core Concepts: Data Structures, Algorithms, DBMS, OOP, System Design, REST APIs

Certifications

- Python Developer (2025)
- IBM Java Developer – Coursera (2026)

Problem Solving

Solved 300+ Data Structures and Algorithms problems on LeetCode.

Extra-Curricular

Represented at national-level competitions in basketball and skating.