

Bashar Ahmad Khan

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SKILLS

- **Languages:** Python, C, C++, Java, JavaScript, TypeScript, PHP, SQL, MongoDB
- **Frameworks/Libraries:** React.js, Node.js, Express.js, Tailwind CSS
- **Tools/Platforms:** Git, VS Code, Sublime Text, Atom, PyCharm, IntelliJ
- **Soft Skills:** Problem-Solving, Adaptability, Leadership, Work Ethic and Accountability
- **Core Subjects:** DBMS, Computer Networks, Operating System, OOPS

PROJECTS

WorkOS – Internal Engineering Workflow & Incident Management Platform | [GitHub](#)

Feb' 2026 – Present

- Architected and implemented a centralized state-machine engine enforcing strict task and incident lifecycle transitions, preventing invalid or skipped workflow states across all defined roles and system operations.
- Established robust role-based access control (RBAC) mechanisms at the API layer, ensuring permission-bound actions, ownership validation, and secure workflow execution across multiple operational roles and responsibilities.
- Instituted immutable, append-only audit logging infrastructure, recording every workflow action and state transition to maintain complete traceability, accountability, and long-term historical data integrity.
- Engineered asynchronous background processing for SLA monitoring and automated escalation handling, ensuring timely deadline enforcement without blocking core application workflows.
- Tech Used: Node.js, Express.js, MongoDB, Mongoose, JWT, RBAC, REST APIs, Async Jobs, Queues, Middleware, Git/GitHub.

CivicFix – Civic Issue Reporting, Accountability & Trust Platform | [GitHub](#) | [Link](#)

Jan' 2026 – Feb' 2026

- Designed and developed a scalable full-stack civic issue management platform with 4 distinct role-based user types (Citizen, Officer, Supervisor, Admin), enabling complete issue lifecycle tracking from creation to verified resolution.
- Implemented a robust state-machine-driven workflow engine with strict validation logic ensuring 100% valid status transitions and preventing unauthorized or inconsistent updates across all defined user roles.
- Built and optimized secure RESTful APIs with JWT-based authentication and role-based authorization middleware, reliably processing and managing 1000+ monthly complaint records with structured audit logging.
- Integrated a structured multi-step verification workflow where Officers submit resolution evidence with supporting media, Supervisors review and validate submissions, and the system automatically maintains a tamper-proof, end-to-end audit trail for accountability and compliance.
- Tech Used: React.js, Node.js, Express.js, MongoDB, Mongoose, JWT, REST APIs, RBAC, Middleware, Git/GitHub, Postman.

TRAINING

Full Stack Web Development | CIPHERSCHOOL | [Certificate](#)

Jul' 2025

- Completed Full-Stack MERN Development training at Cipher School with practical experience in MERN stack.
- Strengthened skills in JavaScript, REST APIs, CRUD, Git/GitHub, async programming, Postman testing, error handling, performance optimization, and scalable application design.
- Tech Used: MongoDB, Express.js, React.js, Node.js, JavaScript, REST APIs, JWT, Git/GitHub, Postman, MVC pattern.

CERTIFICATES / CERTIFICATION

- Nptel – Cloud Computing | Swayam-Nptel | [Certificate](#) Nov' 2025
- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate | Oracle | [Certification](#) Sept' 2025
- Introduction to Hardware and Operating Systems | Coursera | [Certificate](#) Sept' 2024
- The Bits and Bytes of Computer Networking | Coursera | [Certificate](#) Sept' 2024

ACHIEVEMENTS

Data Structures & Algorithms Excellence

Dec' 2025

- Solved 700+ problems across platforms.

LeetCode Performance

Oct' 2025

- Completed 400+ problems, covering core and advanced DSA concepts.

Competitive Programming

May' 2025

- Achieved 2-star rating 1506, on CodeChef through consistent contest participation.

Multi-Language Coding Proficiency

Oct' 2023

- Achieved 5-star Python, 4-star C++, 3-star C, 2-star Java on HackerRank.

EDUCATION

Lovely Professional University

Bachelor of Technology in Computer Science and Engineering - CGPA: 8.30

Phagwara, Punjab

Since Aug' 2023

Dav Public School, Cantt, Area

Intermediate – Percentage: 76.33%

Gaya, Bihar

Apr' 2021 – Mar' 2022

Elegant Public School

Matriculation – Percentage: 86.8%

Gaya, Bihar

Apr' 2020 – Mar' 2021