

VISHAL BHAGAT

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Education

Mizoram University, Mizoram

Bachelor of Technology in Information Technology

December 2021 – June 2025

Araria Public School (CBSE), Araria

Senior Secondary Education (Class XII - Science Stream)

2019 – 2021

Relevant Coursework

- | | | | |
|-------------------|--------------------|---------------------|---------------------------|
| • Data Structures | • Operating System | • DBMS | • Machine Learning |
| • Algorithms | • OOPs(Java) | • Computer Networks | • Artificial Intelligence |

Work Experience

Full Stack Web Developer Intern | *Certificate*

Labmentix, India

June 2025 – September 2025

Remote

- Developed and deployed end-to-end web modules that reduced manual workflows by 40%, improving operational efficiency for client use cases.
- Optimized database design and API performance, cutting average query response time by 30% and enabling faster data retrieval at scale.
- Strengthened platform reliability by implementing authentication, access control, and error-handling mechanisms, minimizing downtime incidents.
- Collaborated in an agile team environment, delivering features ahead of deadlines and contributing to code reviews, testing, and production releases.

Summer Research Intern | *Certificate*

National Institute of Technology, Patna

June 2024 – July 2024

Remote

- Proposed a novel WRSN (Wireless Rechargeable Sensor Network) framework utilizing UAVs and Mobile Vehicles for energy-efficient data collection.
- Modeled sensor coverage using hexagonal clustering and rotating CHNs (Cluster Head Nodes), balancing energy loads and enhancing network resilience.
- Designed heuristic algorithms for UAV path optimization and delay-sensitive aggregation, cutting energy loss and transmission delays by over 35%.
- Validated through simulations, showcasing a 40% improvement in network lifespan and significantly faster data relay across distributed nodes.

Projects

Worklio - Freelance Job Marketplace | *MERN Stack*

August 2025

- Conceived and launched a freelance marketplace serving 100+ users across technology, content, and design services.
- Engineered a bidding engine with instant matching and intelligent ranking, boosting successful project allocations by 65%.
- Instituted JWT-secured sessions and persistent logins, elevating trust and cutting authentication errors by 90%.

Digital Signature App (DocSign) | *MERN Stack*

July 2025

- Delivered a signing platform enabling 100+ users to upload PDFs, apply drag-and-drop signatures, and export completed files.
- Embedded cryptographic audit trails with `pdf-lib`, ensuring tamper resistance and regulatory compliance.
- Integrated multi-provider login with JWT and Facebook OAuth, reducing unauthorized entry attempts by 40% while managing role-based permissions.

Bug Tracker | *MERN Stack*

June 2025

- Directed development of a collaborative tracking tool serving 10+ teams with real-time ticket creation, delegation, and monitoring.
- Introduced Kanban workflows with drag-and-drop, inline comments, and file attachments, accelerating resolution cycles by 30%.
- Formulated role-aware pipelines that improved accountability and reduced ticket misassignments by 25%.

Technical Skills

Languages: Java, Python, C++, JavaScript, SQL, HTML, CSS

Frameworks: React.js, Next.js, Express.js, Flask

Libraries/Tools: Redux, Tailwind CSS, NLTK, spaCy, Jest, pdf-lib, react-pdf, react-draggable

Databases: MongoDB, MySQL, PostgreSQL

Runtimes/Build Tools: Node.js, Vite, Npm

Platforms/DevOps: Git, GitHub, Docker, Render, Postman

Security Middleware: JWT, Multer

Others: REST API Development, Responsive Web Design, MVC Architecture, API Integration, RBAC, Authentication, File Upload, Drag-and-Drop Interfaces