

Mukesh Kumar Vishwakarma

Full-Stack Developer | Bachelor of Technology | Aerospace Engineering | IIT Kanpur

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ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI/%
2025	B.Tech(AE)	Indian Institute of Technology Kanpur, UP	6.2/10
2019	CBSE(XII)	Jawahar Navodaya Vidyalaya, Lucknow, UP	86.20%
2017	CBSE(X)	Jawahar Navodaya Vidyalaya, Mirzapur, UP	9.4/10

ACHIEVEMENTS

- Secured **All India Rank 10171** in **JEE Advanced 2020**, organized by IIT Delhi, competing among the 250000+ candidates
- Secured **All India Rank 3237** (OBC) in **JEE Mains 2020** organized by NTA among the 1.5 million competitive applicants
- Secured an outstanding **State Rank 60** in **Uttar Pradesh State Entrance Exam (UPSEE 2020)** among 150K applicants
- Represented **IIT Kanpur** at the **56th & 57th Inter IIT Sports Meet**, finished at the **5th position** overall as a contingent

PROFESSIONAL EXPERIENCE

Backend Developer Intern | CryptoOwl Pvt Ltd

May 2024 - Aug 2024

Objective	Curate crypto wallet profiles , analyze trends in market and establish alerts for profitable transactions
Approach	Collected blockchain transaction data via APIs, synchronized live RDS to Redshift for real-time analytics Tailored SQL queries for detailed analysis of token transaction and swap data of over 100M+ crypto wallets Employed Airflow DAG to schedule and automate data pipeline, ensuring routine and precise data analysis Engineered RESTful APIs with API Gateway and Lambda , delivering charts and insightful wallet KPIs
Outcome	Enabled decision-making via web dashboard, by simplifying intricate crypto trends into accessible insights Analyzed social engagement data to measure the impact of different influencers on the price of tokens value

TECHNICAL PROJECTS

Chat-App | 🚀

Nov 2025 - Dec 2025

- Built **Full-Stack** chat application using **React, Node.js, Socket.io, & MongoDB** supporting **300+ concurrent users**
- Achieved sub-200ms **message latency** using **WebSocket-based architecture** and optimized event-driven backend(tested)
- Implemented secure authentication with **JWT & bcrypt**, protecting 100% private routes and **encrypted user credentials**
- Deployed **CI/CD pipelines** with **Vercel** reducing deployment time by **40%** and improving **release stability** (estimated)

Food-Delivery | User 🚀 | Admin 🚀

Oct 2025 - Nov 2025

- Built a **component-based scalable MERN web application**, supporting **99.9% uptime** & 250+ concurrent active users
- Architected **MongoDB Atlas-backed APIs** ensuring **sub-100ms DB latency**, high availability, and horizontal scalability
- Developed a **robust admin panel** that allows for rapid **menu, adding products, and order management** operations
- Improved **backend performance (REST API)** by **40%** using **Atlas schema indexing** and optimized **Express routes**
- Implemented secure **JWT authentication**, **Multer-based file handling**, and **Stripe payments** to enhance **data integrity**
- Deployed backend **Web Service** and frontend **Static Site on Render**, achieving **99% uptime** and **scalable** performance

Blog-App | 🌐

Aug 2025 - Sept 2025

- Built a full-stack blogging platform using **Node.js (Express), Mongoose**, and JavaScript for real-time **CRUD operations**
- Designed optimized & scalable **MongoDB** schemas with **indexing & aggregation**, reducing high-traffic **latency** by **30%**
- Implemented **JWT, cookie-based auth**, and **REST APIs**, improving security by **40%** and reducing response time by **20%**
- Deployed application on **AWS Elastic Beanstalk**, configured **environment variables**, & integrated with **MongoDB Atlas**

TECHNICAL SKILLS

- Languages:** C++, Python, JavaScript (ES6+), Node.js, HTML5, Tailwind CSS, CSS3, SQL.
- Frontend Development:** React.js, Tailwind CSS, Vite, Context API, Axios
- Backend Development:** Express.js, Node.js, RESTful APIs, WebSockets (Socket.io), MVC Architecture
- Databases & Modeling:** MongoDB (Atlas), MySQL, NoSQL, Neo4j, Mongoose
- Cloud & DevOps:** AWS (EC2, S3, Lambda, Elastic Beanstalk), Apache Airflow, CI/CD, Render, Vercel
- Security & Auth:** JWT Authentication, OAuth2, bcrypt, Authentication & Authorization
- Tools & Middleware:** Git, GitHub, Postman, Multer, Cloudinary, npm, Dotenv, ESLint
- System Design & Testing:** Microservices, Scalable Systems, API Optimization, Unit Testing, Troubleshooting

RELEVANT COURSEWORK

Fundamentals of Computing
Object Oriented Programming

Algorithms
Data Structures

System Design
Image Processing

DBMS
Computer Networks

POSITION OF RESPONSIBILITY

Organizer, Events and Competitions, Udghosh'22

(June 2022 - Oct 2022)

- Led a **Three-tier team** of **20+ senior executives** for the smooth and efficient conducting of matches in **Football event**
- Managed **250+ sportspersons** and **18 referees** with the coordinating fixtures for the smooth conducting of the matches
- Assisted in organizing the Udghosh **National Open School Quiz**, a high-impact pre-festival event for **6000+ students**

EXTRA CURRICULARS

- Won **Gold Medal** in Men's Football category in one of India's largest annual Inter-collegiate Sports Fest **UDGHOSH'21**
- Selected in **Dakshana Fellowship** for two-year program provided to the **top 1%** of students from **661 JNVs** across India