

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

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|-----------|--|
| 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 | Algorithms | System Design | DBMS |
| Object Oriented Programming | Data Structures | Image Processing | 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