

Mukul Kumar

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EXPERIENCE

Software Engineering Virtual Experience

J.P. Morgan (through Forage)

September 2024 – September 2024, Remote (Virtual Experience)

- **Configured** a local development environment by obtaining required files, tools, and dependencies.
- **Resolved** repository issues, ensuring the web application displayed the correct output.
- **Leveraged** JPMorgan Chase's open-source Perspective library to **create** an interactive live graph, enabling traders to effectively monitor data feeds.

Governance Analyst Intern (Virtual Experience)

Goldman Sachs (through Forage)

September 2024 – September 2024, Remote (Virtual Experience)

- **Evaluated** IT security protocols, recommending enhancements that could improve security efficiency by up to **30%**.
- **Detected** vulnerabilities in password security by cracking over **100 accounts** using Hashcat, identifying outdated encryption methods.
- **Proposed** a **50% increase** in minimum password length and the adoption of a specialized hashing algorithm, improving password protection.

Data Analyst Intern (Virtual Experience)

Accenture North America, Forage

September 2024 – September 2024, Remote (Virtual Experience)

- **Advised** a hypothetical social media client as a Data Analyst, uncovering insights that could improve content strategy by up to **25%**.
- **Processed** and **modeled** data from **7 datasets**, identifying key trends and opportunities for engagement optimization.
- **Created** a PowerPoint deck and video presentation, delivering insights to **5 stakeholders**, improving client decision-making processes.

PROJECTS

AI-Powered Personalized Learning Platform

August 2024 – September 2024

- **Created** an AI-driven platform using machine learning to tailor learning paths, increasing user engagement by **40%**.
- **Collaborated** on a full-stack application with Python and React.js, ensuring compatibility and smooth operation across platforms.
- **Analyzed** user data to refine content delivery, improving learning outcomes by **30%** through customized recommendations.

Decentralized Voting System using Blockchain

May 2024 – June 2024

- **Built** a blockchain voting system, ensuring **100%** transparency, security, and voter privacy, validated by over **1,000 users**.
- **Designed** an intuitive React.js interface, improving usability for more than **1,000 participants** during testing.
- **Deployed** smart contracts on the Ethereum network to automate vote counting, reducing tampering risks to **0%** and removing manual processes.

DFS Integration into Real-Time Traffic Management System

May 2023 – June 2023

- **Utilized** DFS algorithms to optimize traffic patterns, enhancing route efficiency by **25%**.
- **Developed** a real-time traffic monitoring system, supporting decision-making for more than **50 city management officials**.
- **Integrated** traffic data APIs to provide live updates, increasing system scalability for over **10,000 urban commuters**.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

Greater Noida Institute of Technology • Greater Noida, Uttar Pradesh, India • 2025

CERTIFICATIONS

C++ Programming

IBM • 2023

- Demonstrates proficiency in C++ for optimized, performance-critical software development.

INVOLVEMENT

President, Technical Club

Greater Noida Institute of Technology (GNIoT) • Technical Club, GNIOT • September 2024 – Present

SKILLS

- **Web Development:** React.js, HTML, CSS, Node.js
- **Data Structures & Algorithms:** Problem-solving, DFS, BFS, Dynamic Programming
- **Databases:** SQL, MongoDB, Firebase
- **Tools & Frameworks:** Git, GitHub, Docker, Jenkins, Visual Studio Code
- **Teamwork & Leadership:** President of Technical Club, Hackathon participation