

# Mritunjay Kumar

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## EDUCATION

### Vellore Institute of Technology

*Bachelor of Technology in Computer Science and Engineering, CGPA: 8.27*

Madhya Pradesh, India

*August 2021 - May 2025*

### D.A.V Public School, Hazaribagh

*Central Board Of Secondary Education, Higher secondary examination: 86.66%*

Jharkhand, India

*June 2020 - July 2021*

## PROJECTS

### Dockerized Web Scraper | Node.js, Python, Puppeteer, Flask, Docker

March 2025

- Developed a production-ready web scraper using Puppeteer with headless Chromium in Node.js, implementing page navigation, DOM querying, and data extraction to JSON with error handling
- Engineered a multi-stage Docker build process separating the Node.js scraper and Python Flask API server, reducing final image size to under 300MB through Alpine Linux optimization
- Designed a RESTful Flask API with JSON responses, serving scraped data including page titles, headings, and timestamps through endpoint routing and proper HTTP status codes
- Configured Docker with Chromium-specific flags (`--no-sandbox`, `--disable-dev-shm-usage`) and environment variables for container compatibility
- Implemented proper file handling between build stages, passing scraped data.json from Node.js to Python container while maintaining filesystem permissions

### Mentor Me | Next.js, Tailwind CSS, PostgreSQL

February 2024

- Crafted a mentoring and resource-sharing platform for students using Next.js and Tailwind CSS, enriching 1:1 and group mentoring experiences.
- Developed a PostgreSQL-backed full-stack web application, utilizing Next.js for enhanced frontend interactivity.
- Designed intuitive user interfaces with Tailwind CSS, significantly enhancing experience and improving accessibility across mentoring and resource-sharing functionalities.
- Integrated real-time chat functionality to facilitate instant communication between mentors and mentees, increasing engagement and reducing response time.

## INTERNSHIP

### Full Stack Developer Intern, HiredNext

May 2025

- Developed and deployed a fully functional web application from scratch using React, HTML, CSS, and Vite, with a strong focus on performance and scalability.
- Built and integrated a robust backend using Supabase, leveraging its real-time database and authentication services for seamless user experiences.
- Designed and implemented responsive, user-friendly interfaces ensuring cross-device and cross-browser compatibility.
- Collaborated closely with design and backend teams to ensure consistent UI/UX and smooth frontend-backend integration through RESTful APIs.
- Improved application performance and maintainability by organizing code with reusable React components and modular architecture.

## TECHNICAL SKILLS

**Programming Languages:** C++, Python, SQL, JavaScript, HTML, CSS.

**Frameworks & Libraries:** Next.js, Tailwind CSS, Flask, Puppeteer.

**Databases:** PostgreSQL, MySQL.

**Cloud & DevOps:** AWS (EC2, S3, RDS, IAM), Docker.

**CI/CD & Automation:** GitHub Actions, Bash.

**Version Control & Tools:** Git, VS Code.

**Operating Systems:** Windows, Linux (Ubuntu).

## CERTIFICATIONS

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**AWS Certified Cloud Practitioner** – Amazon Web Services (AWS), 2024

Demonstrated proficiency in cloud fundamentals, AWS services, and cloud security.

**NPTEL Cloud Computing – Elite Rank** – IIT (NPTEL), 2024

Gained expertise in cloud infrastructure, virtualization, and security concepts.

## ADDITIONAL INFORMATION

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**Interests:** Passionate about software development, cloud computing.

**Competitive Programming:** Solved 400+ problems on LeetCode , GFG and Hackerrank, focusing on data structures & algorithms.

**Languages Spoken:** Fluent in English and Hindi.