Mritunjay Kumar

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EDUCATION

Vellore Institute of Technology Madhya Pradesh, India
Bachelor of Technology in Computer Science and Engineering, CGPA: 8.36 *August 2021 - May 2025*

D.A.V Public School, Hazaribagh Jharkhand, India
Central Board Of Secondary Education, Higher secondary examination: 86.66% *June 2020 - July 2021*

PROJECTS

Dockerized Web Scraper | *Node.js, Python, Puppeteer, Flask, Docker* March 2025

- Built a robust web scraper using Puppeteer and headless Chromium in Node.js, enabling page navigation, DOM querying, and structured data extraction to JSON with integrated error handling
- Architected a multi-stage Docker build process to separate the Node.js scraper from the Python Flask API server, minimizing image size below 300MB using Alpine Linux optimization
- Implemented a RESTful API using Flask to expose endpoints that serve scraped data including titles, headings, and timestamps with appropriate HTTP status codes
- Configured Docker with Chromium-specific flags (`--no-sandbox`, `--disable-dev-shm-usage`) and environment variables to ensure headless browser compatibility within containers
- Handled cross-container file sharing by passing `data.json` from the Node.js scraper to the Flask API container, maintaining file integrity and permission compliance

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

- Spearheaded the creation and deployment of a complete web application using React, TypeScript, HTML, CSS, and Vite, optimizing for both performance and scalability
- Leveraged Supabase to construct a real-time backend infrastructure, utilizing its database and authentication features for secure, interactive user flows
- Crafted responsive, intuitive UI components tailored for seamless use across various devices and browsers
- Coordinated actively with design and backend teams to align frontend workflows with API endpoints and maintain visual consistency
- Refactored frontend codebase into modular, reusable React components to boost maintainability and streamline future enhancements

TECHNICAL SKILLS

Programming Languages: C++, Python, SQL, JavaScript, TypeScript, 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

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

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.