PIYUSH KUMAR SINHA

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EDUCATION

Vellore Institute Of Technology | 2021 - 2025
Bachelor of Technology in Computer Science and Eng.
GD DAV Public School | CBSE | 78.8 %
Higher Secondary Education

Bhopal , Madhya Pradesh
CGPA - 7.38
Deoghar , Jharkhand

TECHNICAL SKILLS

Programming Languages: C++, JavaScript, HTML5, CSS3
Frameworks & Technologies: React.js, Node.js, Express.js, MongoDB, SQL
Development Tools: Git, RESTful APIs , Docker , CI/CD

WORK EXPERIENCE

Ethnus - SDE Intern [Full Stack]   **Aug 2023 - Nov 2023**
- Designed and integrated new features across multiple frontend applications using the MERN stack, enhancing user experience and overall performance.
- Identified and fixed backend issues, optimizing API performance, improving response times, and ensuring system stability.
- Collaborated with cross-functional teams to test and refine features, making sure everything functioned smoothly and efficiently.

PROJECT WORK

PixelFlow [GitHub] :   **Nov 2024 - Dec 2024**
- Engineered a media-sharing SaaS platform with AI-powered features like smart image resizing, intelligent video previews, and efficient compression to enhance user experience and accessibility.
- Implemented secure authentication with Clerk, including email verification and seamless state management using Zustand in a Next.js setup.
- Integrated Cloudinary AI for dynamic media transformations, optimizing content for social media while improving performance and scalability.

   Tech Stack: Next.js, React, Zustand, Node.js, Express.js, MongoDB, Clerk Authentication, Cloudinary AI

Horizon [GitHub] :   **June 2024 - Aug 2024**
- Developed Horizon, a financial SaaS platform using Next.js, React, and Tailwind CSS, integrating Plaid for bank account management and Dwolla for secure fund transfers.
- Implemented server-side authentication with Node.js and Express.js, ensuring a secure and reliable user validation system.
- Analyzed system logs to identify and resolve issues, improving overall performance and stability.
- Deployed a serverless architecture using AWS Lambda, optimizing scalability and cost-effectiveness.

   Tech Stack: Next.js, React, Tailwind CSS, Node.js, Express, MongoDB, AWS Lambda, Plaid, Dwolla

RideNow [GitHub] :   **Dec 2023-May 2024**
- Built and launched a fully functional Uber-like app using the MERN stack, managing authentication, profiles, and ride-booking for users and drivers
- Integrated Google Maps API for real-time location tracking, distance calculations, and route suggestions, making the booking process faster and smoother.
- Developed and optimized RESTful APIs for profiles, ride creation, and search functionality, ensuring seamless integration with the frontend and enhancing overall performance.

   Tech Stack: MERN (MongoDB, Express.js, React, Node.js), Google Maps API, JWT Authentication

CERTIFICATIONS

- AWS Cloud Practitioner
- NPTEL Cloud Computing (IIT Kharagpur)

EXTRA-CURRICULAR ACTIVITIES

- Achieved 28th rank in Jharkhand in Hindustan Olympiad.
- Contributed to OpenCode'23, an open-source event by IIIT Allahabad, collaborating on projects and refining technical skills.