SURYANSH VERMA

Lakhimpur Kheri (Uttar Pradesh)

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EDUCATION

National Institute of Technology, Patna	**2023 – 2027**
B.Tech - Electrical Engineering - **CGPA** *- 8.3*	*Patna, Bihar*
Pt. deen dayal upadhyay saraswati vidya mandir inter college (UP Board)	**2021 – 2022**
12th - **Percentage** *- 82.8*	*Lakhimpur Kheri, UP*
Pt. deen dayal upadhyay saraswati vidya mandir inter college (UP Board)	**2019 – 2020**
10th - **Percentage** *- 86.17*	*Lakhimpur Kheri, UP*

PROJECTS

SCS Hosting & Transcoding Platform ⧉ | MERN stack, AWS & docker **June, 2024**

- Developed a cloud services platform using the MERN stack (MongoDB, Express, React, Node.js), AWS, and Docker, delivering scalable and secure services with a pay-as-you-go model.
- Implemented transcoding service leveraging AWS ECS, enabling video format conversion from MP4 to HLS (1044p, 720p, 360p, 240p) for adaptive streaming, optimizing media delivery across multiple devices.
- Built static web hosting service to deploy users' websites to a shared S3 bucket with unique URLs.
- Integrated BullMQ for email queuing and Nodemailer for scalable email delivery.
- Secured platform with OTP-based authentication using JWT and refresh tokens.
- Integrated Cashfree payment gateway for secure transactions.

Event-Management App ⧉ | React Native, JavaScript, MongoDB, express js, node js **September,2024**

- Built a full-featured event management app enabling users to create and attend events.
- Implemented search functionality by location, date, and event name.
- Developed secure two-factor authentication with OTP and JWT.

Two-tier nodejs and mongoDb app deployment ⧉ | Docker, Kubernetes, AWS EKS **November-2024**

- Deployed a scalable Node.js and MongoDB application to handle 10,000 concurrent users, emphasizing resilience and fault tolerance.
- Utilized Docker to containerize the application, managing dependencies and deploying images to Docker Hub for version control.
- Launched on a Kubeadm-based cluster and transitioned to AWS EKS, streamlining cloud management and scaling via eksctl.
- Configured a multi-node Kubernetes cluster with load balancing to distribute traffic evenly, optimizing performance and system reliability.

TECHNICAL SKILLS

Languages: C, C++, JavaScript, Typescript, python,yaml
Technologies/Frameworks: HTML5, CSS3, React,React Native,Nextjs, MongoDB, Express, NodeJS, Tailwind
Databases: MongoDb,Firebase, Redis
Devops technologies/tools: Git,Docker,Kubernetes, Jenkins, Jira
cloud services: AWS(ec2,ASG,IAM,s3 ,ECR,route53, ECS, EKS ,RDS)

Positions and Responsibilities

- **Hackslash NITP:-** Collaborated with the web development team to design and build the official club website, enhancing user experience and showcasing club activities.

- **Tesla NITP:-** Worked as part of a web development team to create and manage various projects and organized multiple events, ensuring smooth execution and positive outcomes.

CODING PLATFORMS

- Solved **180+** Problems on **Leetcode**. ⧉