PIYUSH PATEL

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Experience

MERN Full Stack Internship Program **4 Months**

Fullstack Web Development

- **Built web apps with MERN**, reducing bounce rate by 15% and increasing time on site.
- **Streamlined Git-based version control,** improving team efficiency by integrating code under tight deadlines.
- **Designed responsive UIs, RESTful APIs** with React.js and Node.js.
- **Conducted testing and debugging** to ensure application reliability.
- **Designed a CI/CD pipeline** with automation that minimized deployment times and integrated cloud solutions to maintain high application availability.

Projects

ANPR System | Technologies: Python, Tensorflow, OpenCV, YoloV9 | **Link**

* **Added a robust backend** system for efficient number plate recognition, achieving a 30% reduction in identification errors through machine learning algorithms and image processing techniques.
* **Collaborated cross-functionally** to integrate the ANPR system with existing security infrastructure (website), enhancing operational efficiency and security measures.

PayRoyale | Technologies: ReactJS, MongoDB, NodeJS, ExpressJS, ChartJs | **Link**

* Repository link: **Github**
* **Unique SaaS for tracking and performance** visualization for Clash Royale players, enabling clan admins to monitor individual and team progress effortlessly in real-time.
* **Integrates a dynamic paywall** feature, allowing admins to set prize pools for competitions, streamlining rewards on the basis of player stats and performance metrics.

LiveCollab | Technologies: Typescript, Next.js, Firebase, Liveblocks, Cloudflare Workers, OpenAi, Clerk |

* **Real-Time Features:** Next.js AI-powered web application where multiple users can create rooms and collaboratively edit documents in real time with features like live cursor names, leveraging Liveblocks for low-latency collaboration, similar to Notion.
* **AI Features:** Integrated AI-powered translation using Cloudflare workers to translate selected text into the desired language and a chat-with-your-doc feature using OpenAI, which provides summaries, insights, and actionable suggestions based on user prompts.

Vibesense | Technologies: Python, FER, Tensorflow, OpenCV, Flask, MongoDB | **Link**

* **Emotion Recognition Features:** Designed and integrated an AI model using FER (Facial Emotion Recognition), OpenCV, and TensorFlow to capture and analyze user emotions on request, enabling seamless emotion recognition via a web interface.
* **Recommendation Engine:** Implemented a custom Emotion-Genre map for emotion-based recommendations with the Spotify API and dynamic song suggestions. A custom joke database (10,000+ jokes scraped from Reddit and stored in MongoDB), offering personalized jokes and music to uplift user moods.

Skills

Languages : C++, Java, Python, JavaScript, SQL

Technologies & Tools : AWS, EC2, DynamoDB, S3, SQS, Lambda, Elasticsearch, Docker, Kafka, Axios, ReactJS, Redux, NodeJS, Nginx, Express JS, Next JS, Tailwind CSS, GraphQL, PostgreSQL, MongoDB, Vercel, Unix tools, UI frameworks, Build tools, IDE, Debugger, Source control, System administration, Cloudflare workers Ai integration.

Certifications

• **Amazon AWS Certified Cloud Practitioner:** Demonstrated proficiency in utilizing AWS services such as S3, EC2, Lambda, CloudFormation, IAM, SNS, and SQS to optimize and enhance operational workflows.

• **MERN Certified Full Stack Web Developer:** Skilled in designing and deploying scalable web applications for comprehensive end-to-end development.

• **Cloud Computing certificate:** NPTEL Swayam Chapter - IIT Kharagpur.

• **Computer Vision Certificate:** Developing and deploying advanced image processing and object detection models using deep learning frameworks and algorithms.

Education

Vellore Institute of Technology **May 2021 – May 2025**

B.Tech in Computer Science - 8.01 CGPA *Bhopal, Madhya Pradesh*