Siddhant Vishnu

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in Siddhant-Vishnu ⌂ Siddhant Vishnu

Technical Skills

Backend Development — NodeJS • Express • WebSockets
DevOps — GitHub Workflows • Docker • Kubernetes
Frontend Development — ReactJS • NextJS • Javascript • Tailwind CSS
Miscellaneous — Amazon AWS • WebRTC • TurboRepo • Figma

Projects

Oasis - A Social Network Platform   *Link to Website* ↗

- **Frontend Team Lead** for a social media platform enabling users to post video, photo and text content
- Implemented **Infinite scroll feed** with **auto-playing videos**, enhancing user engagement
- **Optimized video** loading with **caching techniques**, reducing API calls by **40%**
- Led **UI/UX design** for the platform ensuring a cohesive and user-friendly experience
- **Built** key features from scratch including, **global feed**, community feed, **comments section**
- Tools Used: NextJS

Steal or Share   *github.com/repo* ↗

- **Designed a real-time multiplayer game** with role-based access control and WebSocket communication, inspired by the Prisoner's Dilemma
- **Deployed on AWS EC2** using **Docker** containers for Node.js and Redis, with **Amazon RDS** for scalability, and implemented **CI/CD pipeline** with GitHub Workflows for automated deployments
- **Implemented rate limiting with Redis** for managing WebSocket connections, ensuring efficient player interaction handling during simultaneous game rounds
- **Integrated Google Sheets** for real-time event data management and game snapshot updates
- Tools Used: NodeJS, Express, Docker, Redis

Pokémon - Pokédex   *github.com/repo* ↗

- **Developed PokéCam**, enabling users to instantly identify Pokémon by snapping pictures
- **Enabled AI chat** feature with Pokémon, powered by Gemini's API
- **Added Starter Pokémon** feature that **levels up** and **evolves** based on **user interactions**
- **Implemented Region map** showcasing **Pokémon locations**, enhancing user navigation and exploration
- **Integrated PokéAPI** to provide detailed information on various Pokémon, including features and stats
- Tools Used: NextJS

Education

Pune Institute of Computer Technology   Class of 2027
BE in Computer Engineering

- Current GPA: 9.91/10.0 (1st Year)

Achievements and Awards

Winner - Hackathon   July 2024
Secured 1st place in PICT IEEE student chapter's internal hackathon "Tech Rush"

Winner - LeetCode Mania   July 2024
Secured 3rd place in PICT ACM student chapter's "LeetCode Mania" - A month
long competition for solving leetcode problems