Parth Joshi

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PROFESSIONAL EXPERIENCE

SDE Intern | TakeTwoTechnologies   Jun,2024 - present

Proctorlink | Link

- Built a real-time face recognition and analysis pipeline using InsightFace, Dlib, and OpenCV with eye-status detection, EAR calculation, and embedding-based face matching for biometric authentication.
- Developed a modular, high-performance backend with Flask microservices, Redis caching, Dockerization, and thread-safe inference, achieving optimized compute cycles and low-latency APIs.
- Implemented AWS deployment and scaling, including EC2 AMIs, Auto Scaling Groups, ALB routing, NGINX reverse proxies, IAM/group policies, and environment-specific configurations.
- Set up LiveKit streaming infrastructure for real-time monitoring and event-driven communication.
- Performed load/stress testing with JMeter and automated internal scripts for performance validation and reliability checks.
- Tech: Python, OpenCV, InsightFace, Dlib, Flask, Redis, Docker, AWS (ASG, ALB, EC2, AMIs, IAM), NGINX, MediaPipe, TensorFlow/Keras, JMeter, LiveKit.

Brainflow(Cross Platform Mobile App)

- Implemented smart reminders (FCM), interactive planners (BigCalendar, GiftedCharts), and personalized cognitive-boosting routines, leading to 70%+ higher productivity and reduced test anxiety across mobile users.
- Tech: Next Js, React Native, Firebase (FCM), Nginx ,MongoDB
- Android App : **link**   IOS App : **link**

PROJECTS

PolyCode Arena (An Ecosystem for Educational Institutions) | Link:

- Built a scalable coding platform with a custom AWS Lambda–based custom coding engine(**Judge_1**), wallet system (platform currency), marketplace, and community contests. Integrated one-click certificate generation, live leaderboards(SSE), recruitment tools, and secure auth (JWT).
- Tech: AWS (Lambda, ECS, S3), Docker, Node.js, TypeScript, React, MongoDB, Python, CRON, HTML Canvas.

MapNest(Ai Map generator) | Link:

- Built MapNest, an AI-driven mind-mapping platform that converts user prompts into interactive visual maps with intelligent node structuring, map sharing and collaboration, OAuth login, and a modern, UI.
- Tech: Gemini API, React Flow, BFS traversal, OAuth (Google & GitHub), TailwindCSS, shadcn, Context API, Next.js, TypeScript.

HACKATHONS AND ACHIEVEMENTS

- **Create X Hackathon :** Achieved the **top** position(**Code Excellence Award**) .
- **Acehack 3.0:** Finished in the Top 5 among 130+ teams from all over India.
- **Hacktober Fest :-** org: **Appwrite** ,Developed appwrite functions that interact with vonage API and use Bun as runtime.
- **Hacker's Playground:-** Finished Top 10 from a pool of **900 teams** from all over India.

KEY COMPETENCIES

- **Languages** - Python, JavaScript (JS), TypeScript (TS), C++
- **Frameworks**,:Node.js, Express.js, React.js, Next.js, React Native, Flask ,FastAPI, Django
- **Libraries:** OpenCV, Dlib, MediaPipe, InsightFace,TensorFlow/Keras,Socket.io, JWT, OAuth2, Zustand Tailwind CSS, Shadcn/UI
- **Databases & Cloud:** MongoDB, Redis,Firebase,PostgresSQL
- **Deployement:** AWS,Docker, Nginx, GitHub Actions,Git & CI/CD,Vercel

EDUCATION

Bachelor of Technology

- Computer Science Engineering (IoT) M.L.V Textile & Engineering College, Bhilwara Raj. (9cgpa)