Parth Joshi

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M.L.V Textile & Engineering College, Bhilwara, Rajasthan

PROFESSIONAL EXPERIENCE   *2022-ongoing,Take2Technologies,Bhilwara*

Proctorlink | Link

- Developed a real-time face recognition and analysis pipeline using InsightFace and Dlib, integrating eye status detection and embedding-based face matching for biometric authentication..
- Developed robust backend service with Redis caching, modular design, and efficient API for face and eye detection, achieving optimized compute cycles and thread-safe inference.
- Conducted stress testing with JMeter and built internal scripts to automate performance validation and API reliability checks.
- Tech Used: Python, OpenCV, InsightFace, Dlib, MediaPipe, TensorFlow/Keras, Flask, Redis, JMeter

Brainflow(cross platform mobile app)

- Designed and developed a cross-platform app to enhance student cognitive performance and reduce test anxiety through personalized schedules and wellness tools. Boosted study efficiency and engagement by over 70% via smart reminders (FCM), visual planners (BigCalendar, GiftedCharts), and REST-based microservices.
- Tech: React Native, Firebase (FCM), Next.js (API backend),React Native, CRON Jobs, Vercel, Figma.
- Android App : **link**   IOS App : **link**

HACKATHONS AND ACHIEVEMENTS

Create X Hackathon : Achieved the **top** position(best software) .

Acehack 3.0: Finished in **Top 5** by beating **125 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.

PROJECTS

PolyCode Arena (an ecosystem for educational institutions):

- Built a scalable coding platform with a custom AWS Lambda–based custom coding engine, 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):

- 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.

Scribes(collaborative blogging platform):

- Built a real-time collaborative blogging platform enabling multiple users to co-write blogs simultaneously with live updates. features: image uploads, bookmarking, and an admin-curated feed system.**(500+ users)**
- Tech Stack: Socket.io, Handlebars, JWT, Multer, Vanilla JS, Vanilla CSS, ExpressJS, MongoDB, Cloudinary, Cookies/JWT

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

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EDUCATION

Bachelor of Technology
Computer Science Engineering (IoT) M.L.V Textile & Engineering College, Bhilwara Raj.

Senior Secondary Education
Leo International School , Banswara

Secondary Education
New Look Senior Sec. School , Banswara