Arya Pratap Singh

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EDUCATION

Indian Institute of Information Technology Ranchi, Jharkhand
Bachelor of Technology in Computer Science and Engineering, CGPA 8.6 *Aug. 2023 – Present*

DAV International School Mumbai, Maharashtra
10+2 Qualified, Science Stream, AISSCE 95.6%, AISSE 98.2% *Apr. 2009– Feb. 2023*

EXPERIENCE

SWE Intern Feb. 2025 – Present
Nova AI *Remote*
- Developing the Flutter App from scratch using BLoC and Clean Architecture
- Working on frontend creation and optimisation of the backend and gateway services in Hono
- Integrating major tests using flutter testing framework and jest testing to make the application consistent

SDE Intern Jan. 2025 – Present
PinoxioAI *Remote*
- Working on developing the Explanation Engine of the product Mioo using Langchain
- Building and Integrating the frontend React and Tauri App to be deployed by Q1 Release this year
- Managing the deployment services on AWS and exploring Phi-4-o1 finetuning in explanation engine

Full Stack Developer Intern Nov. 2024 – Present
Acumensa Technologies Pvt Ltd. *Remote*
- Working on developing Full Stack Applications for the company and upstream clients
- Building and testing complex scenario applications involving IOT Integrations via a communication channel
- Integrating various backend services like AWS EKS for full fledge deployment with almost maximum uptime and processing of 10M+ Data

Flutter Integration Tester Oct. 2024 – Nov. 2024
PalisadoesFoundation, Talawa *Remote*
- Created GraphQL Widget tests for the files with low coverage. Improved the overall code coverage from 95% to 95.63%
- Improved a specific test coverage from 70% to 93% maintaining the existing code structure and functionality and increased the response fetching time via minor optimizations and data structures

Node Backend Developer Aug. 2024 – Sep. 2024
GoFr *Remote*
- Resolved Optimisation Issues with ParseRefractor function used in web-sdk cron. Fix improves the cognitive capability from 14 to 8 which is below the allowed limit 12
- Connected with Organisation to implement new features
- Maintaining the Codebase and resolving critical issues and CI/CD pipeline check

PROJECTS

Video Generator AI Website | *NextJs 15, Javascript, Clerk Drizzle-ORM, Neon* Sep 2024 – Nov 2024
- Transforms text queries into engaging, high-quality videos using advanced AI
- Modern UI with responsive design, built using Shadcn/UI and Tailwind CSS
- Combines GPT-4, ElevenLabs, Assembly AI, and Hugging Face for superior performance
- Ensures user safety with Clerk and Firebase integration
- Powered by Drizzle ORM, PostgreSQL, and Next.js 15 for scalability and performance
- Ideal for marketers, educators, and content creators looking for quick, automated video generation

Mental Health App | *Flutter, ExpressJs, Postgresql, Redis, Render-Deployment* Oct 2024 – Oct 2024
- Helps users manage stress and anxiety with personalized AI-driven advice and a built-in relaxation music player
- Powered by LLAMA-8B-8192 and a facial emotion recognition model, it supports external APIs like Anthropic, OpenAI, and Mistral
- Developed with Node.js, PostgreSQL, Firebase, and TensorFlow, deployed on Render, ensuring a secure and scalable architecture adhering to clean principles
- Offers a sleek UI for seamless navigation and features like face-based mood analysis and meditation tips

Technical Skills

Languages: Dart, JavaScript, TypeScript, Go, Python, C/C++, C Sharp, SQL (Postgres), Lua (Redis)
Frameworks: React, Next.js, Node.js, Flutter, Flask, Shadcn, TailWind, Material-UI, GroqAI, AppWrite, Prisma, Drizzle, GORM, Django, FastAPI, JSON Serialization, Protobuf
Developer Tools: Git, Apache Kafka, GitHub, InstillAI,, Docker, Kubernetes, Vercel/Netlify/Heroku/Cloudflare, CircleCI, TravisCI, Amazon Web Services, Google Cloud Platform, Clerk, Render
Libraries: TensorFlow, GoFr, Scikit-Learn, pandas, NumPy, Matplotlib